

Rainwater

- 💧 Above ground and underground storage
- 💧 Additional units and accessories
- 💧 Private, public, commercial and industrial use



SOTRALENTZ
H A B I T A T

The Drulingen factory, France



The Lantaron factory, Spain



The Skierniewice factory, Poland



Summary

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Key of pictograms used in this brochure to help you to choose.



Exterior uses, watering small surface areas, temporary swimming pool



Interior uses, flush toilets



Firewater reserve if there is insufficient from the mains.



Process water



Exterior uses, watering large areas, public, commercial or private uses, temporary swimming pool etc.



Interior uses, washing laundry only after filtration



Pre-filtration and filtration of rainwater



Exterior and interior uses, cleaning floors



Regulating flow rate to mains network



Hydrosystem, recovery of soiled rainwater

Sotralentz-Habitat rainwater know-how

Civic gesture in cases of water shortage:

- Respect the environment (sport fields, golf courses...),
- Economising (flushes, washing machines...),
- Management of floods & rainfall (cut off if watercourses reach danger level, watercourse management...),
- Fire prevention (forest storage or public or professional provision...),
- Preserving water resources (water tables and ground water drops),
- Improving quality of life (flower displays...),
- Quality of life (temporary swimming pool, watering green spaces, vegetable gardens...).

How to choose a pre-equipped underground storage?

Favour:

- Pre-fitted storage without pump enabling placement of empty unit
- Savings to be made and not the price,
- Storage tanks made with shock resistant High Density Polyethylene (HDPE),
- Storage tanks made of extrusion blowmoulding HDPE, as multiple layering is extremely resistant for placement of the empty unit and the integration of a food-grade interior being the first saving
- Control modules that conform to current regulation
- Surface pumps suitable for the required head pressure, the watering area desired, the maximum distance to cover, other envisaged uses etc., not without forgetting the required mains network backflow prevention device.

Use our technical manual EP24 to help you choose the right rainwater harvesting system

- Underground placement of empty storage enables both real storage capacity and savings to be made
- Choose a pre-fitted storage without forgetting the indispensable extra rainwater harvesting units (pumps for exterior use or compact modules for interior use, with an obligatory mains network disconnection device, water level detectors (from a distance), watering systems) to make real savings
- Choose the pump or Compact Water Management Module to suit the required manometrically-measured lift height, the area to water and other equipment to supply.
- Do not attach a standard pump.

Environment protection

- In addition to improving the quality of used water pre-treatment, the primary material used in the fabrication of our units (UHMWPE) is 100% recyclable.



Design of

units, harvesting systems and management of rainwater, complying with ISO 9001:2008



Technical Production

using extrusion blowmoulding HDPE, complying with ISO 9001:2008



Quality and innovation

Aqualentz® Primary Pre-treatment units, Secondary Pre-treatment units and Accessories comply with the guarantee of quality ISO 9001: 2008



Availability

- of our rainwater harvesting Aqualentz® range
- above ground interior & exterior storage
 - underground storage,
 - accessories

Environment protection



Quality of life



Fire prevention



Cleaning



Economy



Domestic use



Act every day:

Make water savings by watching your consumption:

- 90 to 180 litres of water (average) per day and per person,
- 120 to 200 000 litres of water per year for a family of 4,
- 15 to 20 litres per m² for watering in summer,
- 100 to 200 litres for washing a car,

Because if you consume without limit, you use on average:

- 180l per bath, 90l per shower, 53l for 8 per hand basin wash,
 - 43 m³ per year for a dripping tap, or 5l per hour,
 - 150 m³ per year if there are cracks or non-watertight joints,
- 140l for 14 flushes,
 - 200 m³ per year if the flush is leaking,
- 15l per kitchen, 30l for 3 lots of dishes washed by hand, 15l for upkeep,
 - 5l to water plants, 90l per washing machine cycle,
 - 140 m³ per year for a small water trickle: 16l per hour.

Total volume of leaks if you consume without limit:

- **533 m³ per year, or leak costs of 1407 euros per year**

Consumption without limit, per day for 4 people:

- **225.6 m³ per year, or spending of 595.60 euros per year for water consumption**



However, if you change the way you consume, you use on average:

- 180l per bath, 60 l per shower, 40 l for 8 hand basin wash,
 - by using a flow regulator adaptor, a thermostatic radiator valve,
- 57l, or 0l if you recuperate rainwater for 14 flushes,
 - by using a pre-regulated dual flush mechanism save 6l or 3l,
- 15l per kitchen, 20l for 1 dishwasher cycle, 10l for upkeep,
 - 0l for watering plants
 - by using recuperated rainwater, 70l or 0l, if using harvested rainwater for the washing machine and mixer taps.

Total of leaks controlled by changing your habits:

- **0m³ per year, or 0 Euros per year**
- = 1407 euros saved and 533 m³ of water conserved**

Economic consumption per day for 4 people:

- **121 m³ per year (more than 100m³ conserved), or 320 Euros per year (275 Euros saved) and much more if you have installed a Sotralentz rainwater harvester.**



Sotralentz-Habitat rainwater know-how

A working system

in a HQE housing estate,
complete rainwater
harvesting



Housing estate HQE LOTICIS

reserves for exterior use,
watering and so on...



Private house in the country

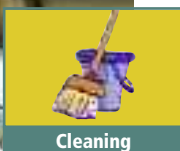
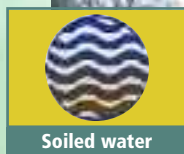


The unit corresponding to your needs

Use table below to choose the unit that best fits your requirements.

Uses	Storage volumes	Useful roof surface area
Watering < 50 m ²	150 to 500 litres	Up to 40 m ²
Watering > 50 m ²	500 to 1 500 litres	Up to 80 m ²
Watering > 50 m ² & washing	1 500 to 3 000 litres	About 100 m ²
Watering > 50 m ² , washing & backup	3 000 to 5 000 litres	About 150 m ²
Rainwater storage for cited uses & in the house	6 000 to 9 000 litres	About 250 m ²
Rainwater storage & flow regulation	9 000 litres & +	From 300 m ² upwards

Sotralentz-Habitat rainwater know-how



Bordeaux's Botanical
Garden in numbers
11 x 25 000 litre storage EP
DP linked up = 275 000 l.
of underground storage
Sotralentz Double skin wall

Golf course watering



Guidance
Accompanying you until
the project is finished



Watering and cleaning open spaces



Bordeaux's Botanical Garden (33)



**Technical
support**
Our technicians on site



Instalment
Made easy because of our
pre-fitted products



Sotralentz-Habitat rainwater know-how

Process water



Technical support

Our technicians on site

Underground storage



Acting for sustainable development

because of rainwater recuperation and blending into the landscape

Exterior use and underground firewater reserve



Guidance

Accompanying you until the project is finished



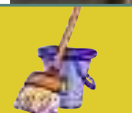
Firewater reserve



Soiled water



Firewater reserve



Cleaning



Processed water

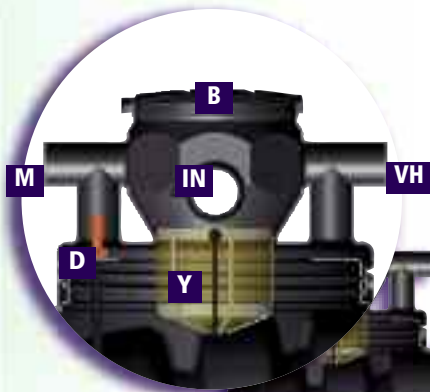




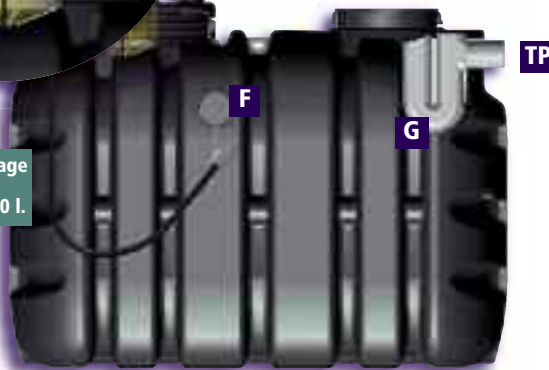
Underground storage

SP-SZ "BASIC"

Storage SP-SZ "BASIC" of 2 500, 3 500, 5 000, 7 500 and 10 000 l.

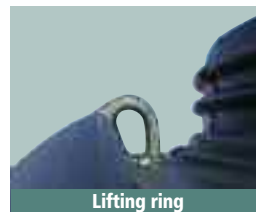


Underground storage
cross section
SP-SZ "Basic" 2500 l.



2500 & 3500 l.

Underground storage
SP-SZ "Basic" 2500 l.



Lifting ring



5000, 7500 & 10000 l.

Underground storage
SP-SZ "Basic" 5000 l.

AquaLentz Underground Storage SP "BASIC", made using extrusion blowmoulding of High Density Polyethylene (HDPE)

• single piece storage SP:

- ✓ stable (not subject to internal or external corrosion)
- ✓ very resistant to shocks and water volume load;
- ✓ Insensitive to temperature changes;
- ✓ Light: easy to handle and put in place

• SP-SZ "BASIC" storage composed of:

- ✓ single piece horizontal storage, 2500 and 3500l.

- ✓ vertical modules of 2500l. assembled with HDPE welding

with, on the IN side of horizontal storage

- ✓ one (1) manhole Ø 400 mm to be equipped with

- ✓ one (1) REHC threaded riser 400/300 (sold separately)

With, on side TP of vertical storage

- ✓ one (1) manhole Ø 400 mm to be equipped with
- ✓ one (1) REHC threaded riser 400/300 (sold separately)

SP "BASIC" storage equipped with:

- ✓ one (1) evacuation outlet **OUT** for water soiled or charged with matter (leaves, mosses, etc.) without contacting storage's interior,
- ✓ one (1) connection point **D** for a surface water pump (option sold separately),
- ✓ one (1) sleeve mounting point **M** to connect the service pipe
- ✓ one (1) slot for Higher Ventilation **VH**
- ✓ one (1) threaded cap **T**,
- ✓ one (1) child-safety device **S**, in stainless steel (option sold separately),
- one (1) flexible floating suction tube **F** connectable to a surface water pump, fitted with a filtering strainer in stainless steel with anti-siphon valve and floater to avoid sucking up settled sludge and floating matter;
- one (1) overflow siphon **G**, regulating inlet flow and the suction of floating particles (oils, hydrocarbons, pollen...), sited above the evacuated water level, with detachable anti-rodent stainless steel grill to avoid entry and entrapment subsequently leading to the degradation of stored water;
- one (1) characteristic pictogram **MA** stating « eau non potable » (water NOT for drinking), above the bolted decanting tap coming from the pump or the EP control module, an auto adhesive warning sign delivered with each underground storage.

Find the dimensions of
all our storage at the
end of this booklet





Underground storage and regulation

SP-SZ "Basket" and "Sinus"

Storage

SP SZ "BASKET"

and "SINUS" in 2 500, 3 500, 5 000, 7 500 and 10 000 litres



AquaLentz Underground storage SP-SZ, made using extrusion blowmoulding of High Density Polyethylene (HDPE).

- ✓ single piece horizontal storage of 2500 and 3500l.
- ✓ vertical modules of 2500l, assembled using HDPE welds
- ✓ stable (not subject to internal or external corrosion)
- ✓ very resistant to shocks and water volume load
- ✓ Insensitive to temperature changes;
- ✓ Light: easy to handle and put in place thanks to lifting ring

SP storage equipped with

Side **IN** SP-SZ horizontal and vertical

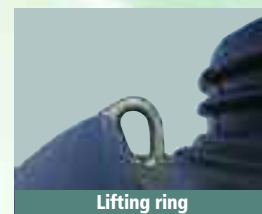
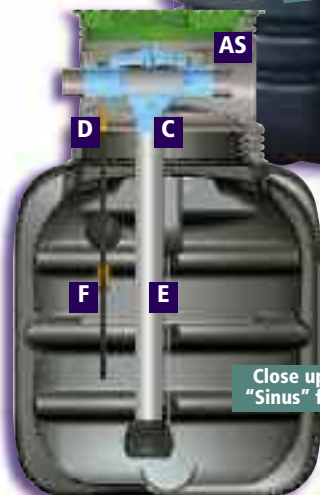
- ✓ a (1) manhole Ø 600mm equipped with a (1) threaded riser REHC 600/580 black Basket **AP** or grey SINUS **AS**, allowing access to the storage's interior for a thorough clean.

With, on the **TP** side

- ✓ a (1) manhole Ø 400 mm equipped with a (1) threaded riser REHC 400/300 (sold separately)
- ✓ One (1) threaded riser REHC 600/580 grey **AS** or black **AP**, equipped with either:
 - ✓ one (1) inlet **IN** for raw rainwater coming from the downpipe,
 - ✓ one (1) integrated grill filter Sinus **C** in the grey riser **AS** removable for access to the storage's interior and auto-cleaning, for up to 150m² of roof, with horizontal cartridge in stainless steel, filtering and cleanable with integrated backwash, trapping particles (leaves, moss) and matter contained in rainwater.
- Plan to install a (1) High Flow VF1 cascade grill filter for a roof surface of between 150 and 350m² and per 350m² section for all SP storage.
- ✓ one (1) basket filter **P** integrated in the removable black riser **AP** to access the storage's interior, for a roof area up to 150m².
- one (1) removable calm water inlet tube, plunging to the units base avoiding the re-suspension of possible sediment whilst promoting oxygenation of water stored in the storage for a better preservation of quality and cleanliness.
 - ✓ one (1) evacuation outlet **OUT** for dirty water or water charged with matter (leaves, moss, etc.) without coming into contact with the storage's interior,
 - ✓ one (1) joint **D** for connection with a surface water pump (option sold separately),
 - ✓ one (1) sleeve mounting point **M** for service tube connection,
 - ✓ one (1) slot to Higher Ventilation **VH**.
 - ✓ one (1) reinforced threaded insulating cap **I**, for pedestrian zones,
 - ✓ one (1) child-safety device **S** in stainless steel
- one (1) flexible floating suction tube **F** joinable to a lift pump, equipped with a stainless steel filtering strainer with anti-siphon valve and a floater to avoid the suck up of bottom sludge and floating matter;
- One (1) overflow siphon **G** to remove overflow water, regulating inlet flow in accordance with the regulations and suction of floating particles (oils, hydrocarbons, pollen), sited above the outlet water level, with detachable anti-rodent stainless steel grill to avoid entry and entrapment subsequently leading to the degradation of stored water
- One (1) characteristic warning sign **MA** stating « eau non potable », (water NOT for drinking), above the bolted decanting tap coming from the pump or from the control module EP, auto adhesive warning sign delivered with each underground storage.
- One (1) non-return valve **CAR** Ø 110mm to position on the overflow siphon outlet, sold separately.



Find the dimensions of all our storage at the end of this booklet





Underground storage and regulation AT 112 "Sinus"

AT 112 storage equipped with:

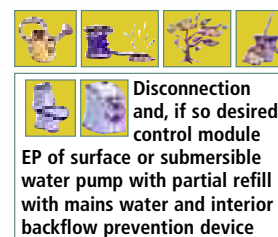
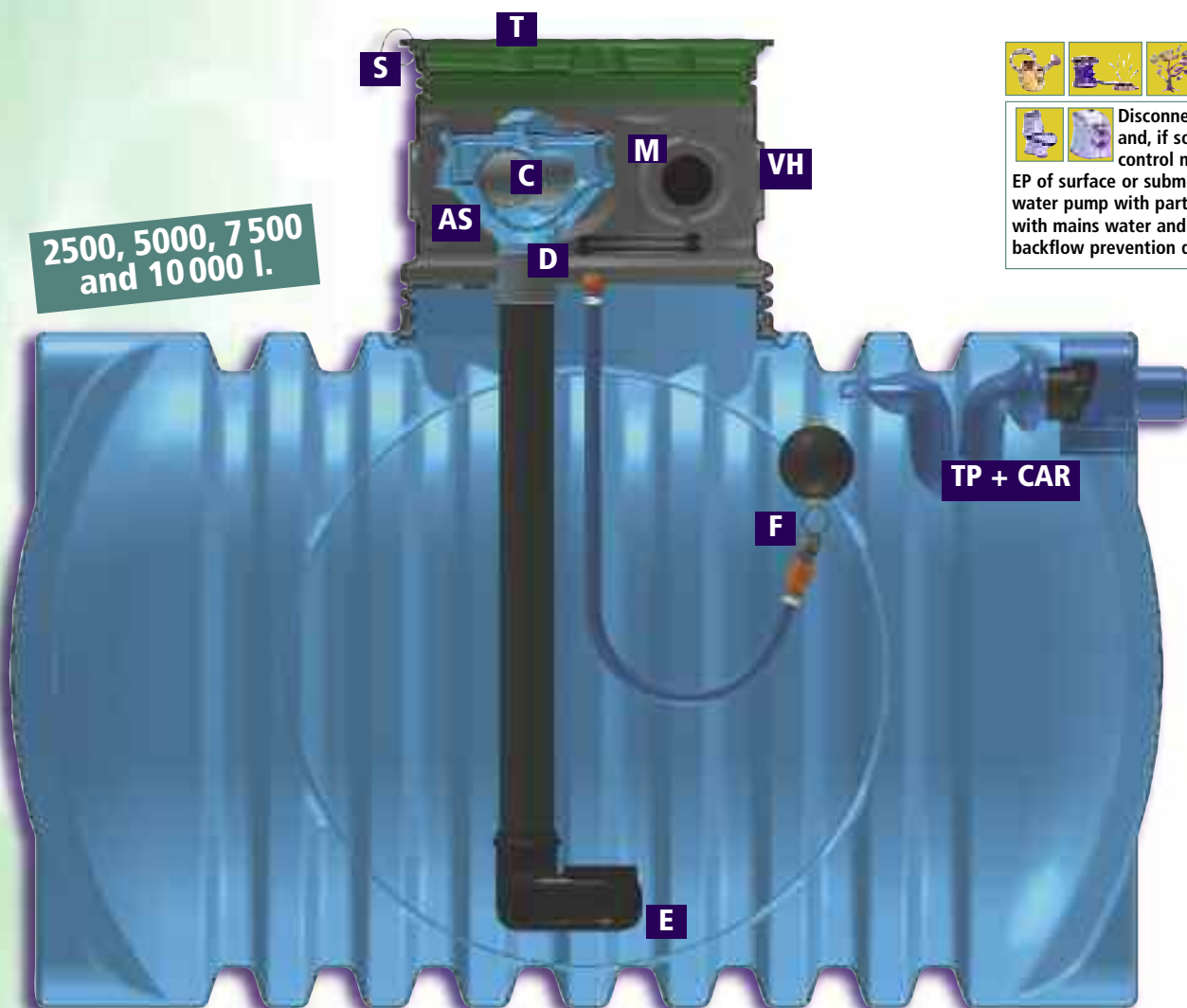
- One (1) threaded grey riser REHC 600/580 "Sinus" **AS**, fitted with:
 - one (1) inlet **IN** for raw rainwater coming from the downpipe,
 - one (1) integrated grill filter Sinus **C**, removable for access to the storage's interior and auto-cleaning, for up to 150m² of roof, with horizontal cartridge in stainless steel, filtering and cleanable with integrated backwash, trapping particles (leaves, moss) and matter contained in rainwater.
 - Plan to install a (1) High Flow VF1 cascade grill filter for a roof surface of between 150 and 350m² and per 350m² section for all AT11 storage.
- one (1) removable calm water inlet tube **E**, plunging to the units base avoiding the re-suspension of possible sediment whilst promoting oxygenation of water stored in the storage for a better preservation of quality and cleanliness.

In the case of the **REALIM** storage, the calm water inlet tube is fitted with a connection that allows a partial refill of the storage with mains water.

Find the dimensions
of all our AT112
storage at the end
of this booklet

- one (1) evacuation outlet **OUT** for dirty water or water charged with matter (leaves, moss, etc.) without coming into contact with the storage's interior,
- one (1) joint **D** for connection with a surface water pump (option sold separately),
- one (1) sleeve mounting point **M** for service tube connection,
- one (1) slot to Higher Ventilation **VH**.
- one (1) reinforced threaded insulating cap **T**, for pedestrian zones,
- one (1) child-safety device **S**, in stainless steel
- One (1) flexible floating suction tube **F** joinable to a lift pump, fitted with a stainless steel filtering strainer with anti-siphon valve and a floater to avoid the suck up of bottom sludge and floating matter;
- One (1) overflow siphon **TP + CAR** to remove overflow water, regulating inletflow in accordance with the regulations and suction of floating particles (oils, hydrocarbons, pollen), *sited above the outlet water level, with detachable anti-rodent stainless steel grill to avoid entry and entrapment subsequently leading to the degradation of stored water.*
- One (1) characteristic warning sign **MA** stating « eau non potable », (water NOT for drinking), above the bolted decanting tap coming from the pump or from the control module EP, auto adhesive warning sign delivered with each underground storage.
- One (1) non-return integrated, accessible and washable valve 110mm to position on the overflow siphon outlet.

2500, 5000, 7 500
and 10 000 l.





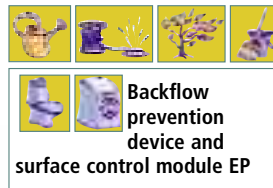
Underground storage and regulation AT 112 "Sinus"

Storage AT 112 with filter "Sinus" and backwash in 2 500, 5 000, 7 500 and 10 000l.

AquaLentz underground Storage AT112,
made using extrusion blowmoulding of
High Density Polyethylene (HDPE).

- AT 112 storage available with a HDPE food-grade quality interior lining composed of horizontal modules of 2500l, assembled with HDPE welding;
 - ✓ stable (not subject to internal or external corrosion)
 - ✓ very resistant to shocks and water volume load;
 - ✓ Insensitive to temperature changes;
 - ✓ Light: easy to handle and put in place.

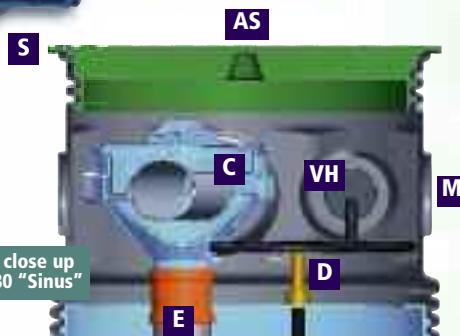
! Only SP-SZ basket and Sinus underground storage and SP-AT112 storage, with a volume greater than 9000 litres, come fitted with a second manhole. For SP-DP storage, refer to information in dimensions table



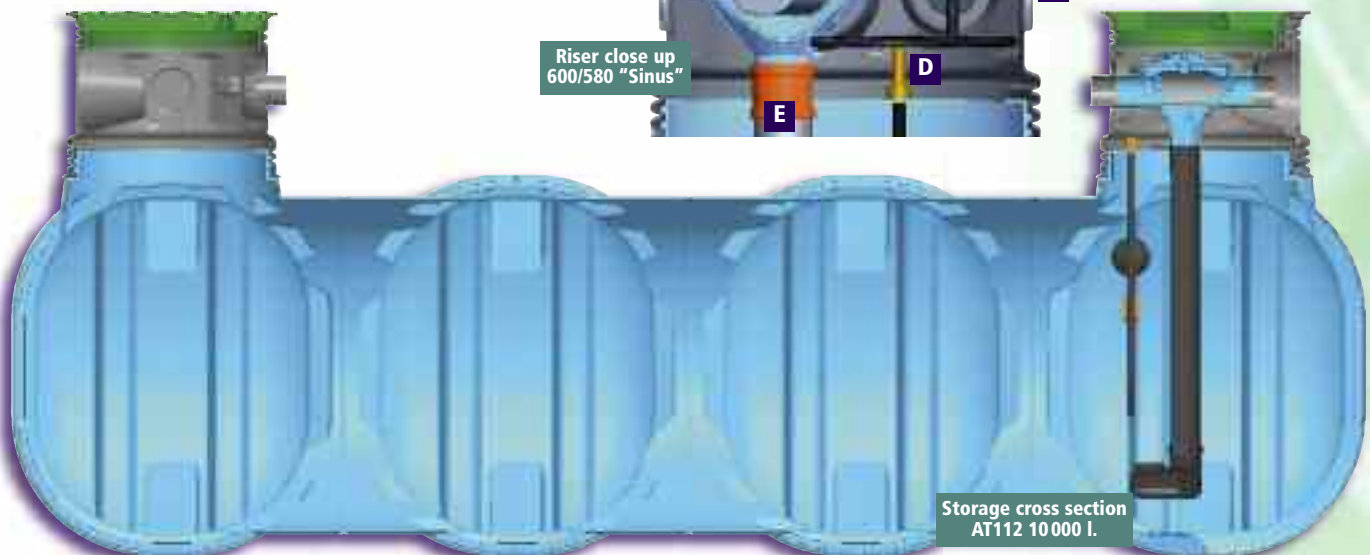
Underground storage
AT 112 - 5 000 l.

Non-return integrated,
accessible and
washable valve in all
storage AT112 2500 to
10000 liters.

Nouveau
TP + CAR



Find the dimensions of all
our AT112 storage at the
end of this booklet





Underground storage and regulation AT 112 "REALIM"

Storage AT 112 with "Sinus" filter and backwash With partial water refill in 2 500, 5 000, 7 500 and 10 000l.

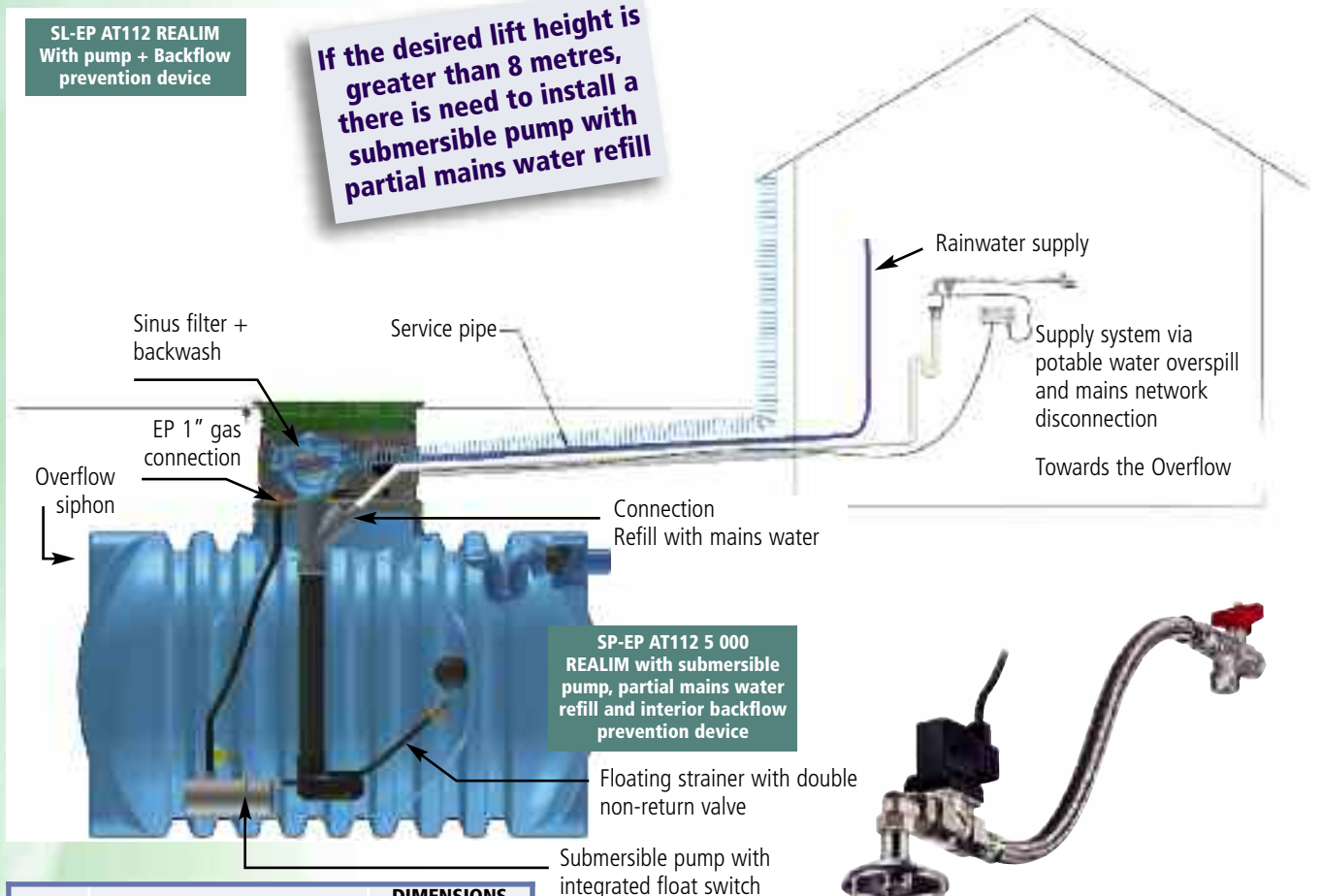


Backflow prevention device and submersible pump with refill

- Refilling is necessary to avoid either overheating of the pump or running it dry.
- The submersible pump is fitted with a float switch that sends information about the presence of water, or lack thereof, via a cable linked to the command box.
- The command box, installed in the house, controls an electrovalve that enables a partial gravitational refill of the storage with mains water
- The obligatory backflow prevention device supplied is a cone with an air gap of 50 mm, conforming to the Standard EN 1717.

**SL-EP AT112 REALIM
With pump + Backflow prevention device**

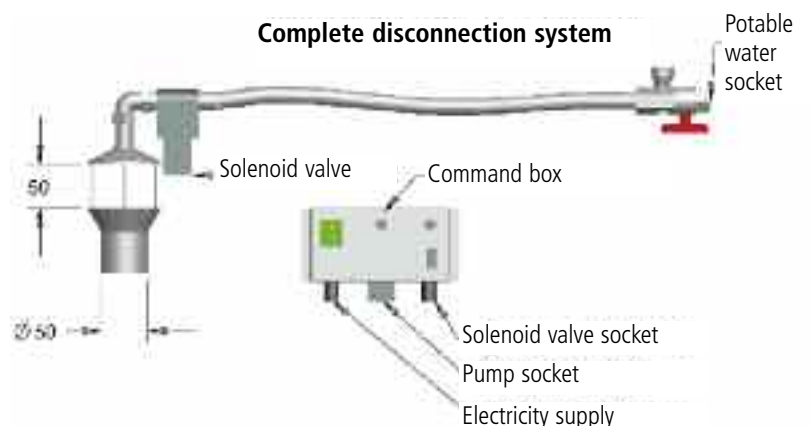
If the desired lift height is greater than 8 metres, there is need to install a submersible pump with partial mains water refill



The backflow prevention device conforms to the Standard EN 1717

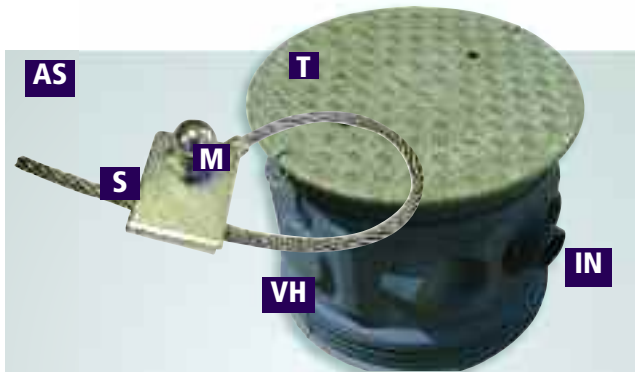
ARTICLE	DESCRIPTION	DIMENSIONS (see pages 46-47)
34 003	SL-EP 2500 AT REALIM SS PUMP	Idem AT112
34 004	SL-EP 5000 AT REALIM SS PUMP	Idem AT112
34 005	SL-EP 7500 AT REALIM SS PUMP	Idem AT112
34 006	SL-EP 10000 AT REALIM SS PUMP	Idem AT112
34 007	SL-EP 2500 AT REALIM + PUMP	Idem AT112
34 008	SL-EP 5000 AT REALIM + PUMP	Idem AT112
34 009	SL-EP 7500 AT REALIM + PUMP	Idem AT112
34 010	SL-EP 10000 AT REALIM + PUMP	Idem AT112
34 011	SL-EP 2500 SP REALIM SS PUMP	Idem SP-SZ SINUS
34 012	SL-EP 3500 SP REALIM SS PUMP	Idem SP-SZ SINUS
34 013	SL-EP 5000 SP REALIM SS PUMP	Idem SP-SZ SINUS
34 014	SL-EP 7500 SP REALIM SS PUMP	Idem SP-SZ SINUS
34 015	SL-EP 10000 SP REALIM SS PUMP	Idem SP-SZ SINUS
34 016	SL-EP 2500 SP REALIM + PUMP	Idem SP-SZ SINUS
34 017	SL-EP 3500 SP REALIM + PUMP	Idem SP-SZ SINUS
34 018	SL-EP 5000 SP REALIM + PUMP	Idem SP-SZ SINUS
34 019	SL-EP 7500 SP REALIM + PUMP	Idem SP-SZ SINUS
34 020	SL-EP 10000 SP REALIM + PUMP	Idem SP-SZ SINUS

Complete disconnection system



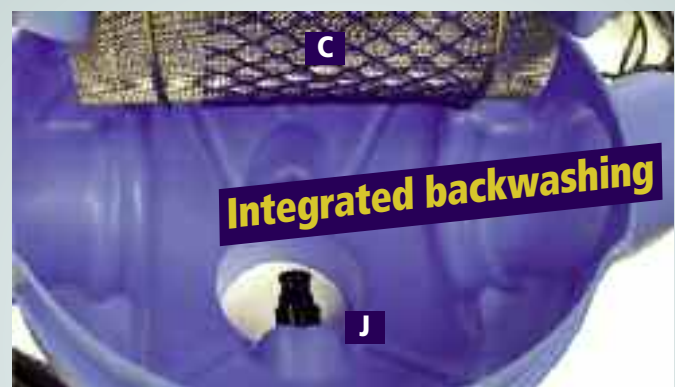


Underground storage and regulation AT 112 "Sinus" and "REALIM"



New threaded grey riser 600/580 AS :

- Adjustable with 1 supplementary threaded riser REHC 600/150
- With reinforced insulated cap **T** for pedestrian zones
- With integrated child-safety device **S** in stainless steel
- With inlet **IN** of raw water
- With outlet **OUT** evacuating soiled water without passing through the interior of the storage
- With sleeve mounting point **M** for service pipe access (electricity supply, pumping, backwashing, gauge),
- With slot to Higher Ventilation **VH**,
- With access to the interior for thorough cleaning,
- With rapid and easy removal and replacement of the "Sinus" grill filter and the calm water inlet allowing access to the storage for thorough cleaning.



Integrated grill filter "Sinus" C, integrated horizontal tubular filtering cartridge, removable with « centrifuge » effect, placed upstream of storage for:

- filtration without energy and without coming into contact with the inside of the storage,
 - recuperating close to 90 % of water collected,
 - ensuring an auto cleaning without energy,
 - backwashing integrated **J** into the filtering cartridge
- Plan to use one (1) high-flow, cascade grill filter for roof areas between 150 and 450 m² and for roof sections of 450m² for all storage.

Characteristic warning sign **MA** stating « eau non potable », (water NOT for drinking), above the bolted decanting tap coming from the pump or from the EP control module, 2 auto adhesive warning signs delivered with each eligible underground storage.



Calm water inlet E, submersible and effective, allowing the arrival of pre-filtered water whilst avoiding re-suspension of sand (sediment) at the same time as oxygenating the contained water for improved water quality preservation and cleanliness. Removal and refitting is rapid and easy.



Equipment D for joining a surface pump Ø 1" (option sold separately).

Flexible floating suction tube F joinable to a lift pump, fitted with a stainless steel filtering strainer with anti-siphon valve and a float to avoid the suction of bottom sludge and floating matter.



White interior lining in HDPE, natural and food-grade.

Flow regulator and overflow siphon TP+CAR, integrated, accessible and washable, sited above the outlet water level for a 2nd filtration, without energy by the skimmer effect, by the removal of greasy particles (hydrocarbons, oils) fine particles (pollen), with anti-rodent grill in stainless steel (to avoid decomposition after drowning).



Regulating flow

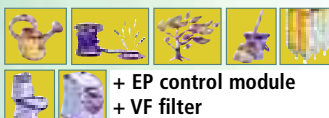
Protection



Double skin wall tanks



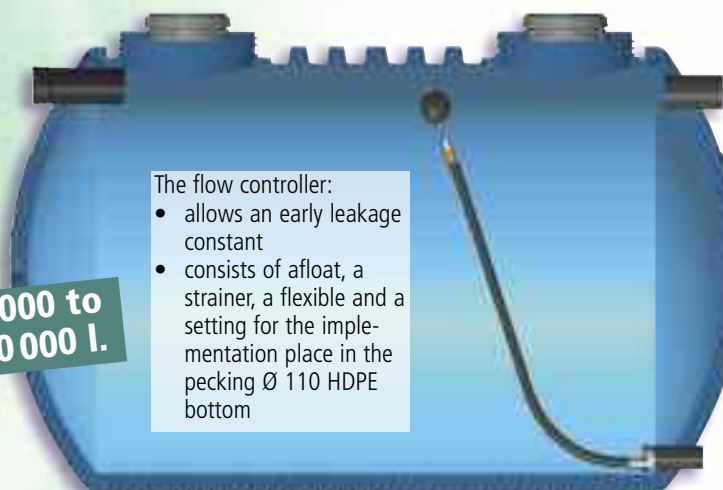
3 500 to 50 000 l.



+ EP control module
+ VF filter

Double skin wall DP linkable for unlimited storage

Find the dimensions of all our tanks at the end of this booklet



5 000 to 50 000 l.

The flow controller:

- allows an early leakage constant
- consists of afloat, a strainer, a flexible and a setting for the implementation place in the pecking Ø 110 HDPE bottom

Enhances REHC 600/150 and REHC 600/300

Enhances 150 mm or 300 mm high screw-on 600/580 or enhances the REHC on 600/250 based REHC equipment of the tank Double Skin EP and that DP within a height maximum total of 1, 20 m above the tank or 1 x 600/580 + 2 x REHC 600/300 or 600/250 1 x REHC+ 3 x 600/300 REHC. sold separately for any overflow



+ VF filtre

Storm spillways DP to reduce and regulate flow



Imperative to validate the DP tanks and their sides with our technical service before excavation or placing load bearing slab

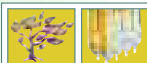


25 000, 30 000, 35 000, 40 000 and 50 000 l.

RESINC EC STD

RESINC EC VID

RESINC EB



+ VF filtre

Firewater reserve Double skin wall DP linkable for unlimited storage minimum of 120000 litres

Example firewater reserve installation: 3 x 40 000 litres.

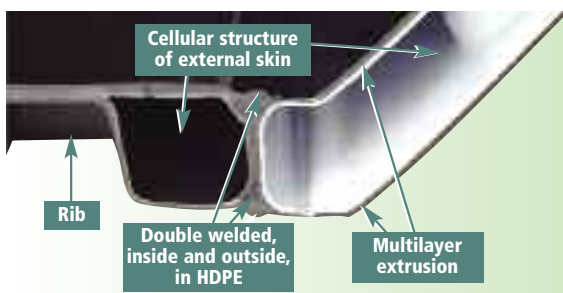


Double skin wall tanks

19 Double skin wall tanks DP-RKT from 3500 to 50000 l. linkable for made-to-measure storage volume

All DP tanks are linkable after validation of a supplied plan, showing connections of lower portions at 110, 125 and 160 mm (option billed separately) for unlimited water store volume (see the Botanical Garden example in Bordeaux, 11 x 25 000 litres, of which 275 000 litres is usable).

- Produced as a single piece composed of Double skin wall segments (6 layers of HDPE) assembled by double HDPE welding inside and outside;
- Tanks are linkable by the base to equilibrate the level of stored water and by the top with the overflow allowing water to flood to linked tanks in order to increase total storage volume;
- Stable: eliminating any risk of internal and external corrosion;
- very resistant to knocks, single piece monobloc structure and resistant to variations in filling volume;
- Insensitive to temperature changes;
- Light, simple to transport and to install almost anywhere, using the same mechanical digger as is used for the excavation;
- Incomparable reduction of installation costs;



- Rigid and resistant to large pressures, to earth pressures or perched groundwater as well as to large quantities of backfill thanks to the cellular structure of the external Double skin wall;
- Unique shape using ground pressure for stabilization and additional resistance thus requiring no water filling during placement;
- Resistance to depression, shown by empty and in situ testing, as the result of the molecular structure of HDPE which eliminates porosity increasing resistance and stability;
- Placement of empty tanks: no water filling required during back-filling;
- 20 years of expertise in the technique extrusion blowmoulding HDPE VHMW, the new Double skin wall system produces tanks with unparalleled solidity and guaranteed watertightness.
- Tolerates the passage of vehicles under 3.5 tonnes if tanks and riser are embedded in stabilised sand (cf. user manual EP23).

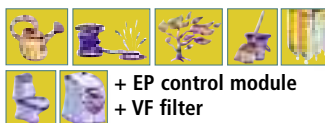


Imperative to validate the DP tanks and their sides with our technical service before excavation or placing load bearing slab



- Integrated stabilization feet, welded to the base of the cellular structure, keeping the unit level;

Find the dimensions of all our tanks at the end of this booklet



19 Double Skin tanks from 3 500 to 50 000l. linkable for made-to-measure storage volume

Enhances REHC 600/150 and REHC 600/300

Enhances 150 mm or 300 mm high screw-on 600/580 or enhances the REHC on 600/250 based REHC equipment of the tank Double Skin EP and that DP within a height maximum total of 1, 20 m above the tank or 1 x 600/580 + 2 x REHC 600/300 or 600/250 1 x REHC + 3 x 600/300 REHC. sold separately for any overflow



DP tanks equipped with:

- One (1) grided tank inlet, with rainwater coming from High Flow VF1, VF1 TWIN or VF2 grill filter(s) for storage with a volume above 9000 litres
 - ✓ Either one (1) inlet **IN** of raw rainwater coming from downpipes and into the grey riser REHC "Sinus" 600/580 **AS**, up to 9000 litres,
 - ✓ Either one (1) Sinus filter **C**, removable to allow access to tank's interior, with filtering cartridge in stainless steel, auto-cleaning and cleanable with integrated backwashing, trapping particles and matter (leaves, moss) contained in the raw rainwater
 - ✓ Integrated Sinus grill filter **C** in all tanks up to 9000 litres and for a roof area less than 150m².
 - ✓ **Plan to use one (1) high flow, cascade grill filter:**
 - VF1 for a roof area between 150 and 350m² and by 350m² sections for all tanks
 - VF1 TWIN per 700m² section for all tanks
 - VF2 per 750m² section for all DP tanks.
 - ✓ one (1) evacuation outlet **OUT** for dirty water or water laden with matter (leaves, moss, etc.) without coming into contact with the tank's interior), up to 9000 litres or for filters VF1, VF1 TWIN, VF2 or VF6,
 - ✓ one (1) joint for connection of a lift pump to the surface (option sold separately),
 - ✓ one (1) reinforced and insulating threaded cap **T** for pedestrian zone,
 - ✓ one (1) child-safety device **S** in stainless steel.
 - ✓ one (1) inlet **IN** for filtered water, filtered by VF1 or VF2 for tanks ≥ to 11 000 litres,
 - ✓ one (1) slot for Higher Ventilation **VH**.
 - ✓ one (1) sleeve mounting point **M** for service pipe connection;
- One (1) calm water inlet tube **E**, removable, plunging to the base of the device to avoid re-suspension of possible sediment whilst encouraging the diffusion of oxygen in the tanks stocked water, for improved water quality preservation and cleanliness,
- One (1) flexible floating suction tube **F** joinable to a lift pump, fitted with a stainless steel filtering strainer with anti-siphon valve and floater to avoid the suction of bottom sludge and floating matter;
- One (1) flow regulator and overflow siphon **G** to remove overflow water and suction of floating particles (oils, hydrocarbons, pollen), fitted with a removable anti-rodent barrier in stainless steel,
- One (1) characteristic warning sign **MA** stating "eau non potable" (water NOT for drinking), above the bolted decanting tap coming from the pump or from the control module EP, auto adhesive warning sign delivered with each underground tanks.
- One (1) non-return valve **CAR** Ø 110mm to position on the overflow siphon outlet, sold separately.



VF1 and VF2 High Flow cascade filters (sold separately)



High Flow cascade grill filters VF1 for underground storage up to 10 m³

Art. 30 534

Description

- for AT 112 and SP storage up to 10 000 litres
- for DP storage greater than 10 000l.
- for roof surface areas between 150 and 350 m² inclusive,
- for sections with surface areas of 350 m².

- High Flow cascade grill filters VF1 to install in the ground;
- Two filtration levels: firstly, filtration of large impurities, then fine filtration of rainwater;
- Discharged impurities expelled via the overflow;
- Recuperation of more than 85 % of rainwater;
- Little maintenance: two (2) annual checks and one (1) annual rinse;
- DN100 int.;
- Ø ext 390 mm - H 451 mm;
- Removable, telescopically-extending, integrated riser, height between 500 and 600mm;
- Mesh size 0.55 mm;
- Maximum flow of 1,5l/sec, 5,4m³/hour.

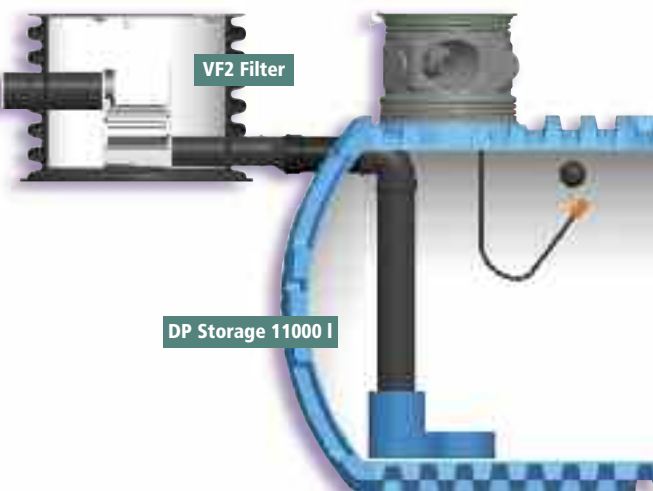
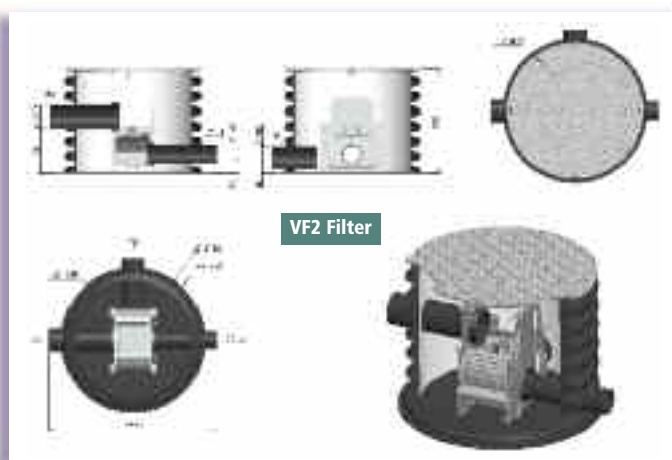


High Flow cascade grill filters VF2 for roof sections of 850m² for underground storage above 10m³

Art. 32 092

Description

- Buried instalment, upstream of the cistern;
- Two filtration levels: firstly, filtration of large impurities, then fine filtration of rainwater;
- Discharged impurities expelled via the overflow;
- Recuperation of more than 85 % of rainwater;
- Little maintenance: two (2) annual checks and one (1) annual rinse;
- Inlet IN: Ø 200 mm;
- Outlet OUT: Ø 160 mm;
- Overflow TP: Ø 200 mm;
- Maximum flow: 3 l/sec.;
- Sieve mesh size fin 0.55 mm;
- Height 890 mm;
- Diameter 1200 mm;
- From the water level:
 - inlet height: 390 mm
 - height TP: 40 mm
 - outlet height: 65 mm.





VF6 and VF12 High Flow cascade filters (sold separately)



High Flow cascade grill filters VF6 for roof sections of 2350m² Art. 32 093

Description

- Buried instalment, upstream of the tanks;
- Integrated into a prefabricated inspection chamber, Ø 1200 mm (not supplied)
- Two filtration levels: firstly, filtration of large impurities, then fine filtration of rainwater;
- Discharged impurities expelled via the overflow;
- Recuperation of more than 85 % of rainwater collected and filtered;
- Little maintenance: two (2) annual checks and one (1) annual rinse;
- 2 inlets IN facing each other: Ø 250 mm;
- 1 outlet OUT: Ø 200 mm;
- Overflow TP: Ø 250 mm;
- Maximum flow: 9 l/sec. / 32.4 m³/hour;
- Fine mesh size of sieve 0.55 mm;
- Height 890 mm;
- Diameter 1200 mm;
- Length 1470 mm;
- From the water mark:
 - inlet height: 365 mm
 - height of TP: 0 mm
 - outlet height: 65 mm.



High Flow cascade grill filters VF6 for roof sections of 4700 m² Art. 34265

Description

- Buried installation upstream of the tanks;
- Integrated into a prefabricated inspection chamber, Ø 2000 mm (not supplied)
- Two filtration levels: firstly, filtration of large impurities, then fine filtration of rainwater;
- Discharged impurities expelled via the overflow;
- Recuperation of more than 85 % of rainwater collected and filtered;
- Little maintenance: two (2) annual checks and one (1) annual rinse;
- 1 inlet IN : Ø 300 mm;
- 1 outlet OUT : Ø 250 mm;
- 1 Overflow TP : Ø 300 mm;
- Maximum flow : 18 l/sec. / 64,8 m³/heure;
- Fine mesh size of sieve 0,55 mm;
- Weight: 39,5 kg;
- Width 1300 mm;
- Length 1200 mm;
- Height 800 mm;
- From the water mark:
 - inlet height: 600 mm
 - height of TP: 0 mm
 - outlet height: 275 mm.



• **High Flow cascade grill filter VF1:**
Art. 30 534 (cf. page 22)
for roof areas between 150 and 350 m²,
for roof sections of 350 m²

• **High Flow cascade grill filter VF2**
Art. 32 092 (cf. page 23)
for roof areas
for roof sections of 850 m²

• **High Flow cascade grill filter VF6**
Art. 32 093 (cf. page 24)
for roof areas
for roof sections of 2350 m²

• **High Flow cascade grill filter VF6**
Art. 34 265 (cf. page 24)
for roof areas
for roof sections of 4700 m²



Filtration Hydrosystem 1000 for Double skin wall underground storage



Filtration of dirty water Hydrosystem® 1000

A PE filtration unit of rainwater.

HYDROSYSTEM 1000 TOIT

For the filtration of rainwater coming off standard roofs, up to 1000 m²

HYDROSYSTEM 1000 ROUTE

For the filtration of rainwater runoff from traffic zones, maximum area of 500 m² for heavy traffic, exceeding 5000 vehicles/day

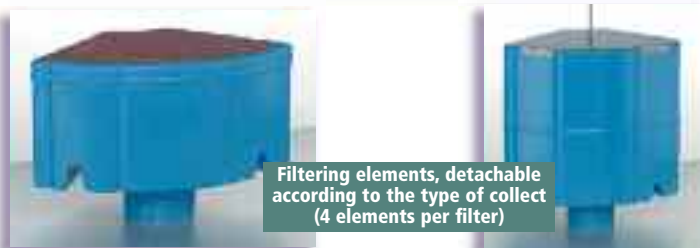
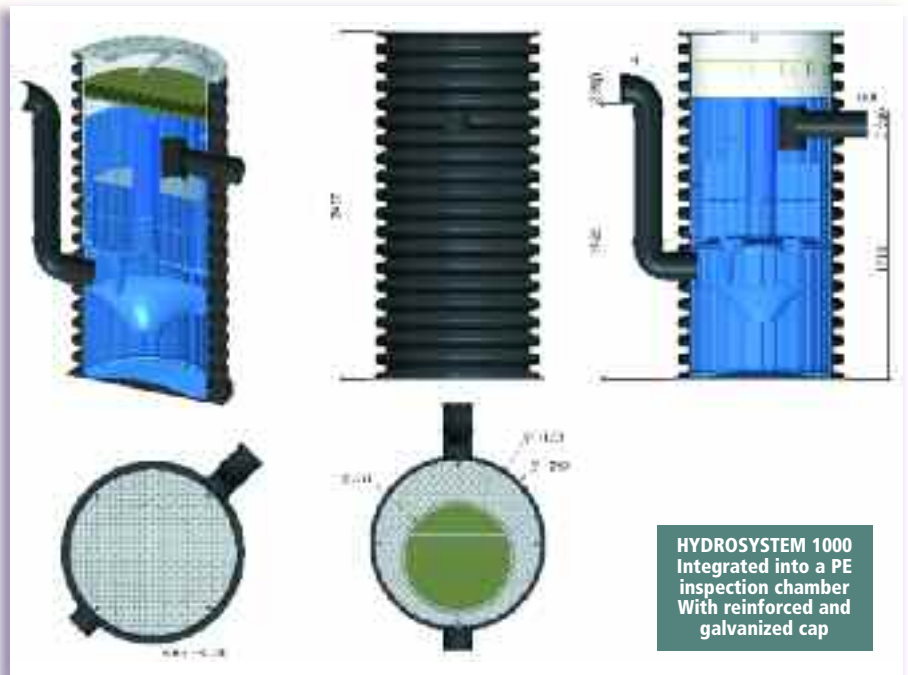
HYDROSYSTEM 1000 METAL

For the filtration of rainwater coming off metallic roofs (lead, zinc, copper...) up to 500 m²

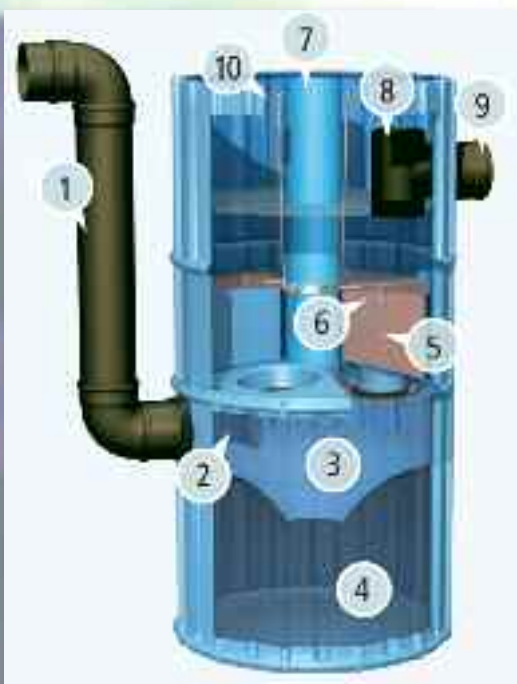
HYDROSYSTEM 1000 PARKING

For the filtration of rainwater runoff from traffic zones, maximum area of 500 m² for light traffic, less than 5000 vehicles/day

The quality of rainwater filtration obtained is such that direct ejection into the surface water system is allowed. The collected rainwater undergoes, during passage through filtering elements, a process of successive filtration: sedimentation, adsorption, filtration then chemical precipitation.



How the Hydrosystem works



Key

- 1 Inlet of untreated water
- 2 Flow into the filtration basket
- 3 Filtering basket
- 4 Deposit of heavy matter and suspended particles
- 5 Micro-particle filter
- 6 Filtered water
- 7 Tube to access deposited matter during drainage
- 8 Outlet of treated water
- 9 Overflow
- 10 Container of purified water

Example installation

HYDROSYSTEM 1000 TRAFFIC mounted in a PE inspection chamber.

After filtration, lightly-charged rainwater from traffic is channelled into an infiltration system



Filtration Hydrosystem 400 for underground storage Single Skin, up to 10 m³

Sold integrated or not in a PE inspection chamber



Filtration of soiled water Hydrosystem® 400

Small PE unit to filter rainwater, to be installed buried directly on site or fitted into a PE inspection chamber

HYDROSYSTEM 400 TOIT

For the filtration of rainwater coming off standard roofs, up to 175 m²

HYDROSYSTEM 400 METAL

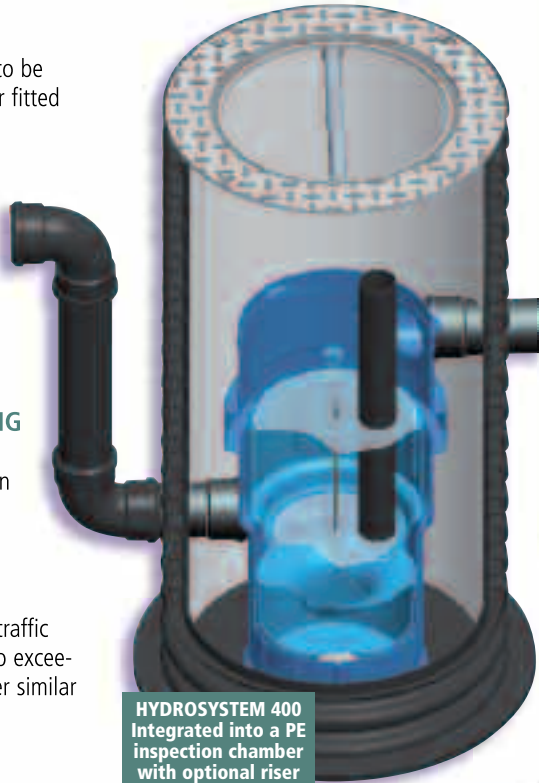
For metallic roofs up to 100 m².

HYDROSYSTEM 400 PARKING

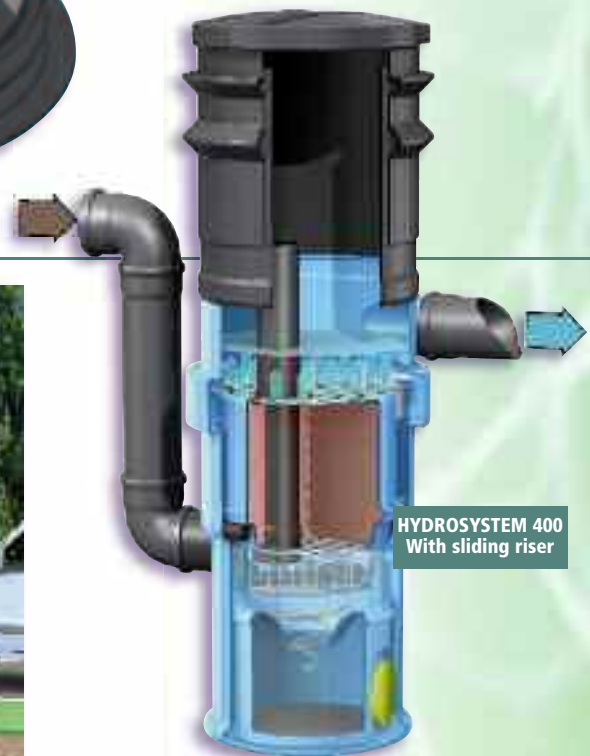
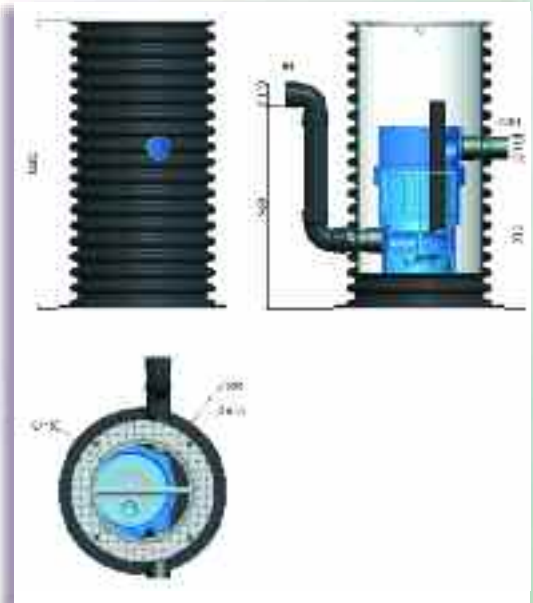
For rainwater runoff from light traffic zones, with daily circulation upto about 5000 vehicles/day, up to 100 m².

HYDROSYSTEM 400 ROUTE

For rainwater runoff from heavy traffic zones, with daily circulation up to exceeding 5000 vehicles/day, and other similar types of runoff, up to 100 m².



HYDROSYSTEM 400
Integrated into a PE inspection chamber with optional riser and reinforced galvanized cap



HYDROSYSTEM 400
With sliding riser

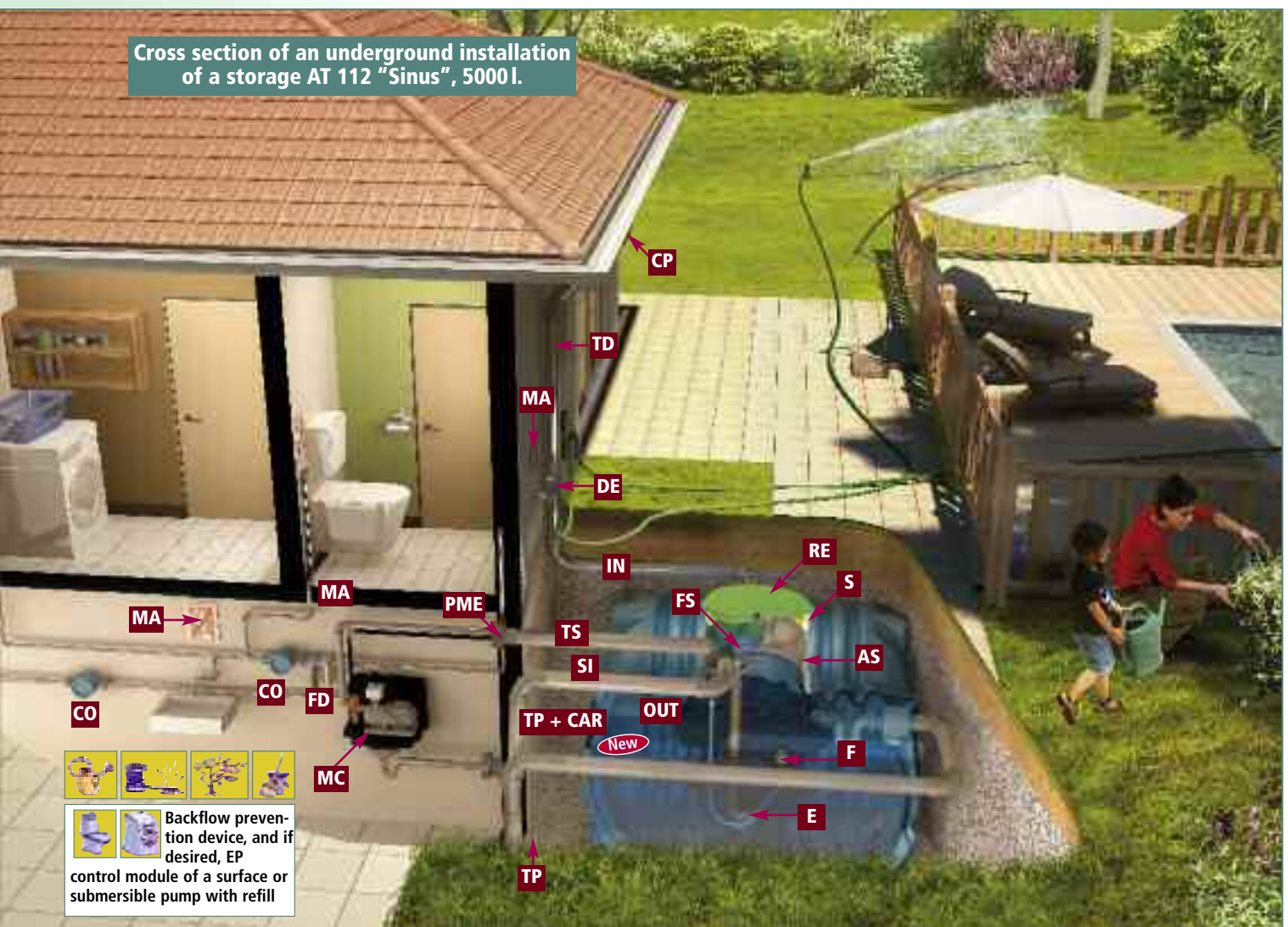


Example of private installation

HYDROSYSTEM 400 in a telescopic riser recuperates water from the zinc roof and runoff from the parking area. After filtration, the rainwater from the roof is collected in an EP-DP storage. The storage's overflow is channelled through infiltration modules into the soil.

Underground installation diagram, AT 112

Cross section of an underground installation of a storage AT 112 "Sinus", 5000 l.



AS Threaded riser REHC 600/580 equipped with a supplementary riser REHC 600/150 RE (sold separately) with reinforced cap **RE**, green insulation and integrated child-safety device,

New **F** Floating and anti-siphoning strainer,

TP + CAR overflow siphon to remove overflow water with detachable anti-rodent stainless steel grill

CO Water meter (sold separately),

CP Debris trap (sold separately),

DE Distribution of non-drinking water,

FD Liquid centrifuge filter NW25 DUO with pre-filtration to capture particles and protect the downstream installation (sold separately),

FS Grill "Sinus" filter removable, with integrated backwashing

IN Inlet of filtered water into the tank

MA Sign "eau non potable" (water NOT for drinking) above each bolted decanting tap, and on water feed pipes (supplied with each storage),

MC Compact Water Management Module with a network disconnection device,

OUT Outflow of dirty water, not passing through the interior of the storage,

PME Watertight wall conduit for the service tube, to avoid sub-soil flooding risks (sold separately),

S Child-safety device in stainless steel,

SI Overflow and flow regulator siphon,

TD Downpipe of gutter,

E Integrated calm water inlet,

TP Overflow directed towards infiltration or collector,

TS Service pipe between storage, EP Control.

For all installations of containers, storage or accessories;

- you must consult our user manual Rainwater Harvesting EP23 supplied with every unit,
- strictly follow our installation and maintenance advice
- ensure a qualified fitter installs your system



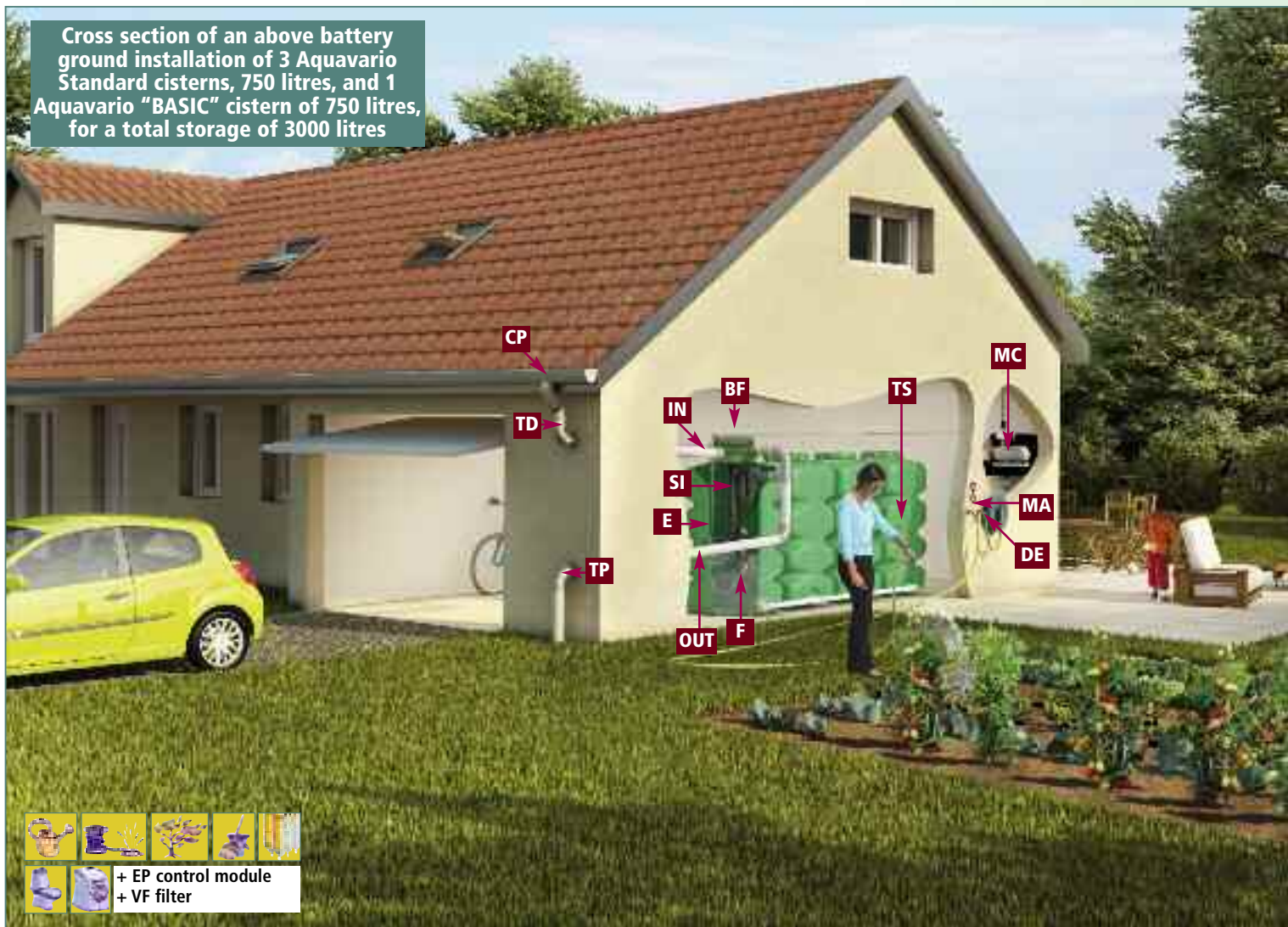
Attach a maximum of one (1) REHC 600/150 riser on the AT112 storage



Infiltration of the overflow directly into the soil is possible, and from there into the water table.

Aboveground Installation diagram, Aquavario XT

Cross section of an above battery ground installation of 3 Aquavario Standard cisterns, 750 litres, and 1 Aquavario "BASIC" cistern of 750 litres, for a total storage of 3000 litres



BF Removable grill filter "BFiltre"

CP Debris trap (sold separately),

DE Distribution of non-drinking water,

F Floating and anti-siphoning strainer, connectable to the pump

IN Inlet of filtered water into the tank

MA Sign "eau non potable" (water NOT for drinking) above each bolted decanting tap, and on water feed pipes (supplied with each storage),

MC Compact Water Management Module with mains disconnection device,

OUT Outflow of dirty water, not passing through the interior of the storage,

SI Overflow and flow regulator siphon,

TD Downpipe of gutter,

E Integrated calm water inlet,

TP Overflow towards infiltration or collect,

TS Service pipe between storage, Control module EP, pump, gauge, backwash and electricity supply.

New

Integrated grill filter "B"



Aquavario Standard

Aquavario "BASIC"

530, 750 and 1050 l.



AquaVario exterior Storage, linkable and UV resistant

- CP** Debris trap on the downpipe
- MA** Sign "eau non potable" (water NOT for drinking) above each bolted decanting tap, (supplied in the "Crédit d'Impôt" tax credit kit with every storage),
- S** Child safety device to attach with a threaded hook on the threaded cap (supplied in the "Crédit d'Impôt" tax credit kit with every storage),
 - Stable: eliminating any risk of internal and external corrosion;
 - very resistant to knocks, single piece monobloc structure
 - Insensitive to temperature changes and variations in filling volume;
 - Highly resistant to light, HDPE treated against UV
 - Installed individually or in series
- T** Threaded cap Ø 400mm allows access enabling thorough cleaning of the storage.

AquaVario storage storage fabricated by the extrusion blowmoulding of High Density Polyethylene (HDPE):

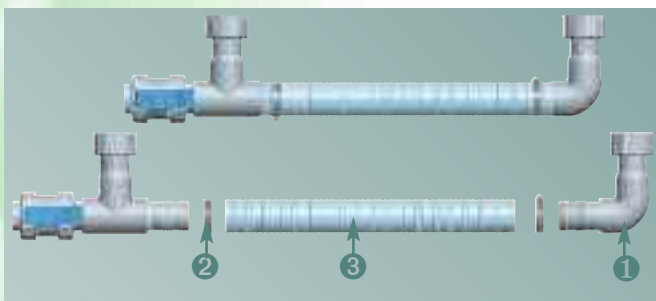
- not very bulky;
- light: easy to handle and put in place, thanks to the 2 guidance handles;
- with 1 low outlet.



Important to check the resistance of your pre-stressed floor, in load per m², is sufficient before any installation of above ground storage on balconies, over under floor spaces...
1000 litres = 1000kgs



Series installation Aquavario Basic + Standard, storage XT Basic + Standard



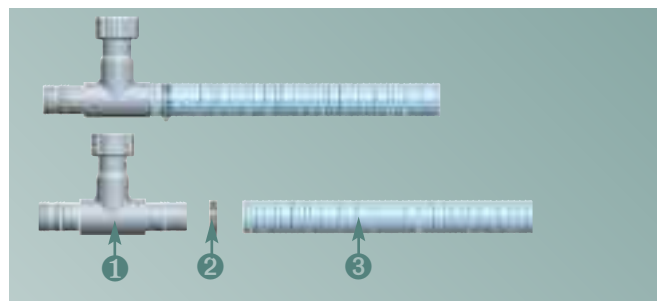
EB



Basic set EB for 2 storage tanks AquaVario in series

- ① 2 ribbed elbow-joint 90° to screw into the low outlet
- ② 2 clamping collar
- ③ 1 flexible reinforced translucent tube

EB-78 ST/SB PP AquaVario (art. 32 002) with integrated 2" tap for the series AquaVario Basic + Standard.
EB-88 STGM/SB PP Storage XT (art. 33 041) integrated 2" tap for the series Storage XT Basic + Standard.



EC



Supplementary set EC for each supplementary AquaVario storage in series

- ① 1 threaded ribbed T-joint
- ② 1 clamping collar
- ③ 1 flexible reinforced translucent tube

EC-78 ST/SB PP (art. 32533) for AquaVario
EC-88 STGM/SB PP (art. 31392) for Storage XT 2000 and 3000l



AquaVario "Basic" exterior storage, linkable and UV resistant



Threaded grey riser 400/200 AB

- with threaded cap **T**,
- with integrated stainless steel child-safety device **S**,
- with raw water inlet **IN**
- with outflow of dirty water **OUT**

MA Characteristic warning sign MA stating « ne convient pas pour l'eau potable » (water NOT for drinking), situated above the bolted decanting tap that comes from the pump or the control module EP, 2 adhesive warning signs delivered with each eligible underground storage.



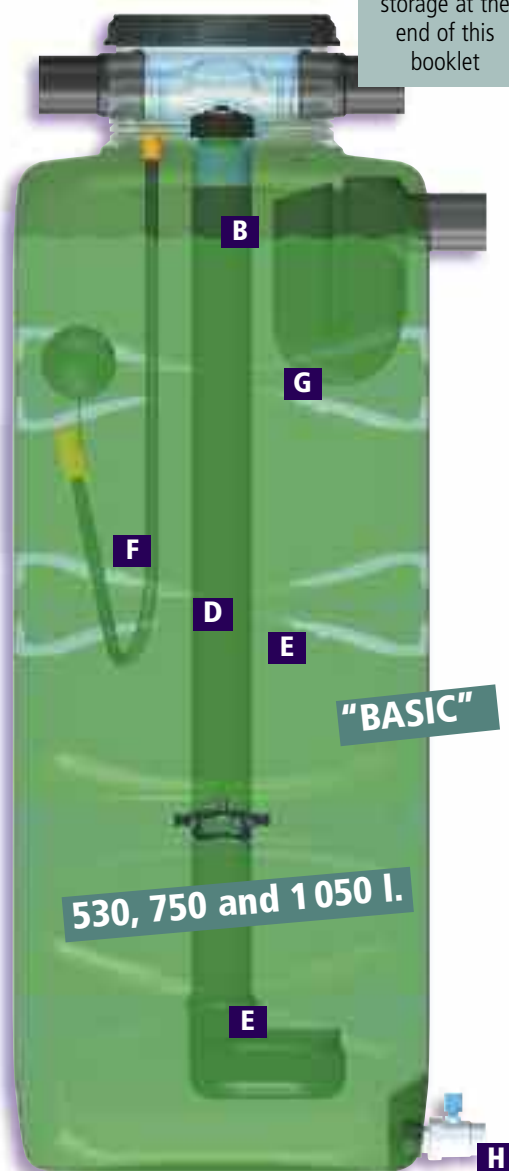
Non-return valve CAR Ø 110 mm to position on the overflow siphon outlet (option sold separately).



Tap 2" integrated in the basic system EB 78 ST/SB PPAV for linking storage by their low outlets PP AquaVario.

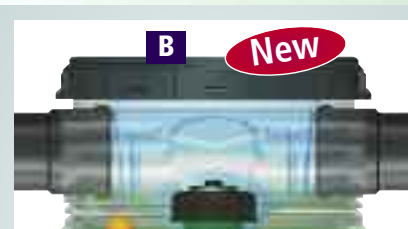


Find the dimensions of all our storage at the end of this booklet



"BASIC"

530, 750 and 1 050 l.



Integrated grill filter "B" **B**, integrated tubular and horizontal filtering cartridge and removable with « centrifuge » effect, placed upstream of storage for:

- filtration without energy and without coming into contact with the inside of the storage,
- recuperating close to 90 % of water collected,
- ensuring an auto cleaning without energy,
- backwashing integrated J in the filtering cartridge,

Plan to use a (1) cascade grill filter high flow VF1 for roof surface area between 150 and 350 m² and by sections of 350 m² for all the storage.



Submerged, effective, calm water inlet **E** allowing the arrival of pre-filtered water whilst avoiding the re-suspension of sand (sediments) at the same time as oxygenating the container water for a better preservation of water quality and cleanliness. Removal and replacement rapid and easy.



Equipment for the **connection Ø 1" D** of an above ground lift pump (option sold separately).

Flexible floating suction tube F connectable to a lift pump, fitted with a filtering strainer in stainless steel with an anti-siphon valve and a floater to avoid the suction of bottom sludge and floating matter.

Siphon and flow regulator overflow according to regulations G is situated above the evacuated water level for a 2nd energy-free filtration, removing greasy particles (hydrocarbons, oils...) & fine particles (pollen...) by the skimmer effect, with anti-rodent grill in stainless steel (to avoid decomposition after drowning).



All external above ground storage units equipped with a low outlet must be emptied in winter as frost damages the low outlet. A filtering collector in the gutter must be installed upstream of all storage units



Exterior above ground storage, linkable and UV resistant



Green, UV resistant storage, 0, 1 or 2 low outlets



AquaLentz storage storage made using extrusion blowmoulding of High Density Polyethylene (HDPE)

- **Light:** easy to handle and put in place thanks to the 2 guidance handles
- with **0, 1 or 2 low outlets** in stainless steel 1" 1/2 - Ø 40/49mm
- with **0, 1 or 2 low outlets** PP 2" - Ø 50/60mm;
- installed individually or in series.

CP Debris trap on the downpipe

MA Sign "eau non potable" (water NOT for drinking) above each bolted decanting tap, (supplied in the "Crédit d'Impôt" tax credit kit with every storage),

S Child safety device to attach with a threaded hook on the threaded cap (supplied in the "Crédit d'Impôt" tax credit kit with every storage),

- Stable: eliminating any risk of internal and external corrosion;
- very resistant to knocks, single piece monobloc structure
- Insensitive to temperature changes and variations in filling volume;
- Highly resistant to light, HDPE treated against UV
- Installed individually or in series

T Threaded cap Ø 400mm allows access enabling thorough cleaning of the storage.



The storage of domestic fuels or hydrocarbons is forbidden in all our storage with low outlets

Our green storage storage allow above ground, non-buried storage of liquids within buildings or outside

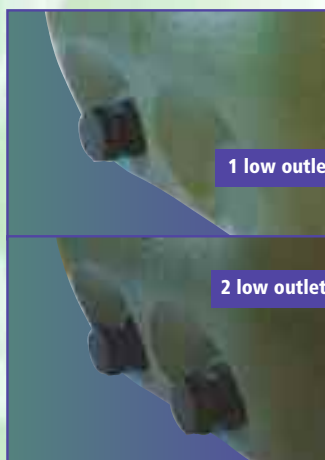


With manhole
One low outlet



Leave enough space, about 80cm, to allow access to the low outlet

Low outlets



1 low outlet PP or stainless steel

2 low outlets PP or stainless steel



Consult us where there is any doubt of a chemical compatibility problem of the joint.



Leave enough space, about 80cm, to allow access to the low outlet

Drainage tap (sold separately)



Option: accessories for series installations and taps (sold separately)

Tap 2" integrated in the basic kit EB 78 ST/SB PPAV for linking low outlets PP AquaVario.

For the fitment of accessories, see document EP24

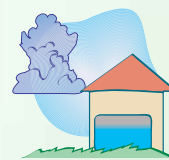


All external above ground storage units equipped with a low outlet must be emptied in winter as frost damages the low outlet. A filtering collector in the gutter must be installed upstream of all storage units





Exterior above ground storage, linkable and UV resistant



EB

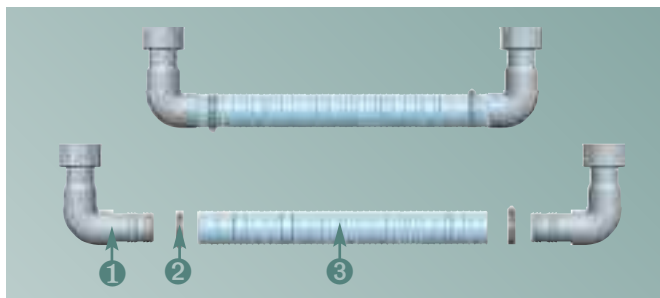


EB Basic system EB for 2 storage tanks in series

- ① 2 ribbed elbow joints 90° to screw onto the low outlet
- ② 2 clamping collars
- ③ 1 flexible reinforced translucent tube

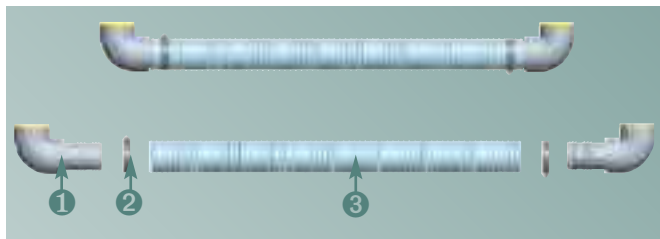
EB-72 STPM/SB PP (art. 31 389) for 1000 and 1500 l

EB-88 STGM/SB PP (art. 31 391) for 2000 and 3000 l



EB-72 STPM/SB inox (art. 30 186) for 1000 and 1500 l

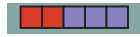
EB-88 STGM/SB inox (art. 30 188) for 2000 and 3000 l



Fitment in series

- 1 storage: stainless steel sleeve
- 2 storage: 1 EB pipe work
- 3 storage: 1 EB pipe work + 1 supplementary EC
- 4 storage: 1 EB pipe work + 2 supplementary EC
- 5 storage: 1 EB pipe work + 3 supplementary EC

EC

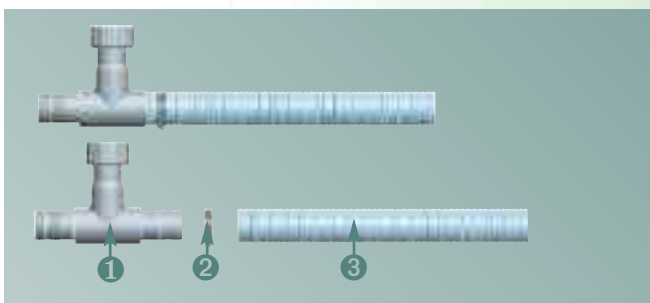


EC Supplementary system EC for each additional storage in a series installation

- ① 1 ribbed threaded T-joint
- ② 1 clamping collar
- ③ 1 flexible reinforced translucent tube

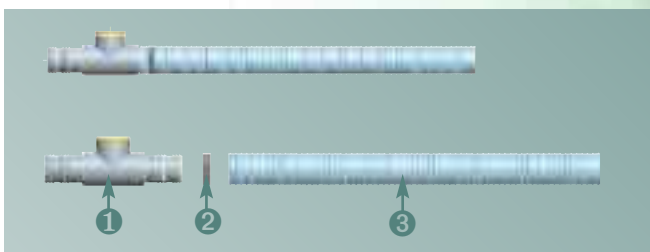
EC-72 STPM/SB PP (art. 31 390) for 1000 and 1500 l

EC-88 STGM/SB PP (art. 31 392) for 2000 and 3000 l



EC-72 STPM/SB inox (art. 30 187) for 1000 and 1500 l

EC-88 STGM/SB inox (art. 30 191) for 2000 and 3000 l



Exterior above ground storage



1 000 litre containers with plastic pallet and 1 low outlet, treated against UV



SLX Lentz 1000 litre standard containers with 1 low outlet, comprising the flowing:

- Tank reservoir **F** made by extrusion blowmoulding of High Density Polyethylene (HDPE) treated against UV, black colour;
- Cap, stopper, tap and pallet: injection casting of HDPE;
- Protection cage: automatically soldered steel wire, finished with the application and polymerization of powder, assembled by screwing onto the pallet.

Equipment:

- A** Threaded cap, diameter 150 mm with 2 " opening, ensuring the arrival of rainwater into the container;
- B** Low outlet installed with black check valve;
- C** Metallic, enamelled trellis cage;
- D** Non-decomposable plastic pallet;
- E** Tubes and PVC joints of connections (not supplied, see your usual distributor).



Leave enough space, about 80cm, to allow access to the low outlet

All external above ground storage units equipped with a low outlet must be emptied in winter as frost damages the low outlet. A filtering collector in the gutter must be installed upstream of all storage units



Rainwater accessories

(Sold separately)

Rainus filter

- **Rainwater grill filter** is installed on guttering downpipes
- Collect of rainwater
- Reliable filtration of impurities, easy to maintain,
- Can be installed by the user
- Ideal for installations that have no other means of filtration
- Ø 80/100 mm at the inlet
Ø 80/100/110 mm at the outlet
- H 505mm
- Depth 216.5mm.



Rainus filter is adapted to a downpipe



Close up of filter – fully integrated, detachable and cleanable



Filtering collector

- **Grey filtering collector** is installed on guttering downpipes;
- Collect of rainwater
- Ideal for above ground storage and small storage volumes
- With open position (summer) and closed (winter)
- Can be used as an overflow
- Delivered with 2 reducers, diameter 80 to 100 mm and adaptator for pipes of 3/4" and 5/4".

Filtering collector adaptable to a downpipe



Close up of filtering collector – cleanable and adaptable to a downpipe



Connection kit for EP storage-collector

Article 32 617 comprising:

- 1 ringed tube, 250mm long, Ø 32mm
- 2 threaded watertight joints Ø 32mm
- 1 manual perforator Ø 32 to pierce the PE.



Rainwater underground storage accessories

Sold separately, obligatory if used
for WCs  and washing machines 

4 compact solutions for normal and backup supply
of rainwater to a private residence

Grundfos Kit SPO

The SPO Kit is principally comprised of:

- submersible pump, SPO-B type, fitted with a base for vertical or horizontal installation in the rainwater reserve,
- pressure control device,
- floating intaker.

If the need arises, the rainwater reservoir can automatically changeover from rainwater to mains water supply (consult us).

- Max. flow rate: 4 m³/h
- Max. pressure (at zero flow) 5 bar.



Designation	Reflux joint	Weight	Tension	P2 (W)	In (A)
SPO 3-50 B	1" 1/4 F	15,2	1 X 230 V	750	6,10

Grundfos MQ 3-45

Quiet, self-priming, booster pump, composed of a pump, an impeller, a pressurised water chamber and a command system.

- Max. flow rate.: 4 m³/h
- Max. pressure (at zero flow): 4.5 bar .



Designation	Aspiration joint	Reflux joint	Weight	Tension	P1 (W)	In (A)
MQ 3-45	1" M	1" M	13	1 X 230 V	1000	4,5

Grundfos Unilift CC

Submersible pump delivered with non-return valve, 10 cable with plug, float switch

- Max. flow rate.: 10 m³/h
- Max. pressure (at zero flow): 0.7 bar.

You will need an external monitor unit controlled by RMQ-A (consult us).



Designation	Reflux joint	Tension	P1 (W)	In (A)
UNILIFTCC 7 A1	3/4" M or 1" M or 1" 1/4 M	1 X 230 V	380	1,8

Grundfos RMQ 3-45 A (Advanced) Grundfos RMQ 3-45 B (Basic)

The RMQ systems are integrated into a soundproof chamber: a compact booster, a monitoring and control unit, a standardised mains water tank, three-way valve, a command and signal panel.

- Max. flow rate: 4 m³/h
- Max. pressure (at zero flow): 4.5 bar
- Maximum inlet pressure (potable water): 3 bar.



Features:	RMQ-A	RMQ-B
Automatic or manual change-over from rainwater/mains water	YES	YES
Holding tank automatically refreshed (every 30 days)	YES	NO
Readout of rainwater level in the tank	YES	NO
Acoustic fault alarm	YES	NO
Visual fault alarm	YES	YES
Signal "clean tank filter" (without sensor)	YES	NO
Additional booster pump option (installed in the tank)	YES	NO
Backflow sensor option (in case of sewer overflow)	YES	NO

Technical specifications

Maximum height to highest point of consumption	15 m
Supply voltage	1 X 230 V
Power input during standby	Approx. 2,5 W
Rated power input	Approx. 1000 W (900 W at 3m³/h)
Enclosure class	IP 42 - B
Weight	24 kg
Ambient temperature	Min. 0°C - Max. +45°C
Mounting location	Indoors, wall
Dimension of suction and discharge pipes	1" (min. suction)
Dimension of overflow	DN 70

RMQ-A accessories:

- Exterior control unit (consult us),
- Emergency overflow with integrated backflow detector (consult us),
- Unilift pump CC7.

AQUALENTZ - dimensions of SP storage



Description	Article	Effective volume (litres)	Weight (kg)	Diameter of opening (cm)	Length A (cm)	Width (cm)	Height of Inlet Ø 110 mm (E) He (cm)	Height of Siphon Ø 110 mm (TP) Hs (cm)	Height Ht (cm) without riser	Height HR (cm) with riser (Ø in cm)	Ø inlet/outlet (mm)	Number of manholes Ø 60cm	With "Sinus" filter integrated in grey riser	With "Basket" filter integrated in black riser	With "Basic" Riser
SP storage "Sinus" or "basket" and SP "BASIC" and AT112 "Sinus" for underground storage															
All underground storage must have a filter installed on the rainwater downpipe. The integrated Sinus grill filter is suitable for a roof area of 150 m². For a greater surface area, ensure to use a VF1 High Flow cascade grill filter for each section of 350 m² for all storage (SP and AT 112)															
EP-SP-SZ 2500 Sinus & REALIM	31937*	2500	92	60	200	119	154	115	140	Ø 60/185	110	1 x Ø 60 1 x Ø 40	YES	NO	NO
EP-SP-SZ 2500 "Basket"	32441	2500	92	60	200	119	154	115	140	Ø 60/185	110	1 x Ø 60 1 x Ø 40	NO	YES	NO
EP-SP-SZ 3500 Sinus & REALIM	31939*	3500	120	60	275	119	154	115	140	Ø 60/185	110	1 x Ø 60 1 x Ø 40	YES	NO	NO
EP-SP-SZ 3500 "Basket"	32442	3500	120	60	275	119	154	115	140	Ø 60/185	110	1 x Ø 60 1 x Ø 40	NO	YES	NO
EP-SP-SZ 2500 Basic	31938	2500	82	40	200	119	149	115	140	Ø 40/175	110	1 x Ø 60 1 x Ø 40	NO	NO	YES
EP-SP-SZ 3500 Basic	31940	3500	110	40	275	119	149	115	140	Ø 40/175	110	1 x Ø 60 1 x Ø 40	NO	NO	YES
EP-SP-SZ 5000 Sinus & REALIM	30392*	5000	180	60	235	135,5	233	188	210	Ø 60/265	110	1	YES	NO	NO
EP-SP-SZ 5000 "Basket"	32443	5000	180	60	235	135,5	233	188	210	Ø 60/265	110	1	NO	YES	NO
EP-SP-SZ 7500 Sinus & REALIM	30393*	7500	260	60	357	135,5	233	188	210	Ø 60/265	110	1	YES	NO	NO
EP-SP-SZ 7500 "Basket"	32444	7500	260	60	357	135,5	233	188	210	Ø 60/265	110	1	NO	YES	NO
EP-SP-SZ 10000 Sinus & REALIM	30944*	10000	350	60	480	135,5	233	188	210	Ø 60/265	110	1	YES	NO	NO
EP-SP-SZ 10000 "Basket"	32445	10000	350	60	480	135,5	233	188	210	Ø 60/265	110	1	NO	YES	NO
EP-SP-SZ 5000 Basic	32101	5000	170	40	235	135,5	225	188	210	Ø 40/250	110	Ø 40	NO	NO	YES
EP-SP-SZ 7500 Basic	32102	7500	250	40	357	135,5	225	188	210	Ø 40/250	110	Ø 40	NO	NO	YES
EP-SP-SZ 10000 Basic	32103	10000	340	40	480	135,5	225	188	210	Ø 40/250	110	Ø 40	NO	NO	YES
EP-AT112 2500 Sinus & REALIM	31600*	2500	105	60	112,5	230	159	118	145	Ø 60/190	110	1	YES	NO	NO
EP-AT112 5000 Sinus & REALIM	31601*	5000	205	60	235,5	230	159	118	145	Ø 60/190	110	1	YES	NO	NO
EP-AT112 7500 Sinus & REALIM	31602*	7500	305	60	358,5	230	159	118	145	Ø 60/190	110	1	YES	NO	NO
EP-AT112 10000 Sinus & REALIM	31603*	10000	405	60	481,5	230	159	118	145	Ø 60/190	110	1	YES	NO	NO

*For REALIM article codes see table page 14.



Imperative to validate the DP storage and their sides with our technical service before excavation or placing load bearing slab

Approximate values

AQUALENTZ - dimensions of DP storage

Enhances REHC 600/150 and REHC 600/300

Enhances 150 mm or 300 mm high screw-on 600/580 or enhances the REHC on 600/250 based REHC equipment of the tank Double Skin EP and that DP within a height maximum total of 1, 20 m above the tank or 1 x 600/580 + 2 x REHC 600/300 or 600/250 1 x REHC+ 3 x 600/300 REHC. sold separately for any overflow



New Riser

New Riser

Description	Article	Effective volume (litres)	Weight (kg)	Diameter of opening (cm)	Length A (cm)	Width (cm)	Height of Inlet (E) He (cm)	Height of Siphon (TP) Hs (cm)	Height Ht (cm) without riser	Height HR (cm) with riser (Ø in cm)	Ø inlet/outlet (mm)	Number of manholes Ø 60cm	Number of feet	With "Sinus" filter integrated in grey riser	With "Panier" filter integrated in black riser
DP Double skin wall tanks for underground storage															
All underground storage must have a filter installed on the rainwater downpipe. The integrated Sinus grill filter is suitable for a roof area of 150 m². For a greater surface area, ensure to use a VF1 High Flow cascade grill filter for each section of 350 m² for all DP storage and a VF2 High Flow cascade grill filter per 850 m² section. All these storage are linkable by slotting connections by the base (option charged separately) for an unlimited water storage capacity.															
EP-DP 3500 Sinus	30756	3500	285	60	182	204	223	179	210	260	110	1	4	YES	NO
EP-DP 5000 Sinus	30011	5000	365	60	235	204	223	179	210	260	110	1	4	YES	NO
EP-DP 6000 Sinus	30772	6000	400	60	264	204	223	179	210	260	110	1	4	YES	NO
EP-DP 7500 Sinus	30012	7500	480	60	317	204	223	179	210	260	110	1	4	YES	NO
EP-DP 9000 Sinus	30013	9000	560	60	371	204	223	179	210	260	110	1	4	YES	NO
EP-DP 11000	30774	11000	670	60	452	204	173	160	210	260	200	2	4	High Flow cascade grill filters VF1 to VF6 Filters are sold and installed separately, storage fitted with REHC riser 600/580	
EP-DP 12500	30047	12500	755	60	508	204	173	160	210	260	200	2	6		
EP-DP 13500	30776	13500	870	60	591	204	173	160	210	260	200	2	6		
EP-DP 15000	30778	15000	890	60	619	204	173	160	210	260	200	2	6		
EP-DP 16000	30048	16000	955	60	644	204	173	160	210	260	200	2	6		
EP-DP 18000	30780	18000	1065	60	722	204	173	160	210	260	200	2	8		
EP-DP 19000	30049	19000	1145	60	780	204	173	160	210	260	200	2	8		
EP-DP 22000	30782	22000	1340	60	910	204	173	160	210	260	200	2	8		
EP-DP 25000	30770	25000	1460	60	998	204	173	160	210	260	200	2	10		
EP-DP 27000	30891	27000	1545	60	1082	204	173	160	210	260	200	2	10		
EP-DP 30000	30784	30000	1680	60	1162	204	173	160	210	260	200	2	12		
EP-DP 35000	33414	35000	1985	60	1340	204	173	160	210	260	200	2	12		
EP-DP 40000	31481	40000	2350	60	1585	204	173	160	210	260	200	2	12		
EP-DP 50000	33884	50000	2910	60	1950	204	173	160	210	260	200	2	16		

Approximate values



Imperative to validate the DP storage and their sides with our technical service before excavation or placing load bearing slab

Underground firewater reserves



Imperative to validate the DP storage and their sides with our technical service before excavation or placing load bearing slab



Double skin wall DP, linkable for unlimited storage, minimum 120 000 litres



Recuperation of rainwater with a view to reusing it as a firewater reserve. Fitting 3 (or more) storage enables a minimum reserve capacity of 120 000 litres. These reserves are obligatory, in certain situations, for businesses and community groups that do not have easy or close access to a firewater network (hydrants or standpipes).

The set includes:

- 1 Standard Base Set (EB STD),
- 1 Supplementary Set with drainage (EC VID)
- 1 or more Standard Supplementary Sets (EC STD).

ARTICLE	DESIGNATION	VOLUME
33902	RESINC EBSTD 25000	25000
33904	RESINC ECSTD 25000	25000
33905	RESINC EBSTD 30000	30000
33907	RESINC ECSTD 30000	30000
33908	RESINC EBSTD 35000	35000
33910	RESINC ECSTD 35000	35000
33911	RESINC EBSTD 40000	40000
33941	RESINC ECSTD 40000	40000
33942	RESINC EBSTD 50000	50000
33944	RESINC ECSTD 50000	50000

	Article	Effective volume (litres)	Weight (kg)	Diameter of opening (cm)	Diameter of body (cm)	Length (cm)	Width (cm)	Height of inlet IN (cm)	Height overflow (TP) Hs (cm)	Height Ht (cm) without riser	Height HR (cm) with riser REHC 600/580	Ø low outlet OUT (mm)	Number of manholes	Number of feet	Ø Higher inlet (mm)	Ø overflow
DP Underground firewater reserves																
RESINC EBSTD 25000	33902	25000	1460	60	-	998	204	173	170	220	260	110	2	10	200	200
RESINC ECSTD 25000	33904	25000	1460	60	-	998	204	173	170	220	260	110	2	10	-	-
RESINC EBSTD 30000	33905	30000	1680	60	-	1162	204	173	170	220	260	110	2	12	200	200
RESINC ECSTD 30000	33907	30000	1680	60	-	1162	204	173	170	220	260	110	2	12	-	-
RESINC EBSTD 35000	33908	35000	1985	60	-	1340	204	173	170	220	260	110	2	12	200	200
RESINC ECSTD 35000	33910	35000	1985	60	-	1340	204	173	170	220	260	110	2	12	-	-
RESINC EBSTD 40000	33911	40000	2350	60	-	1585	204	173	170	220	260	110	2	12	200	200
RESINC ECSTD 40000	33941	40000	2350	60	-	1585	204	173	170	220	260	110	2	12	-	-
RESINC EBSTD 50000	33942	50000	2910	60	-	1950	204	173	170	220	260	110	2	16	200	200
RESINC ECSTD 50000	33944	50000	2910	60	-	1950	204	173	170	220	260	110	2	16	-	-

Approximate values

AQUALENTZ - dimensions of above ground storage

Aquavario XT

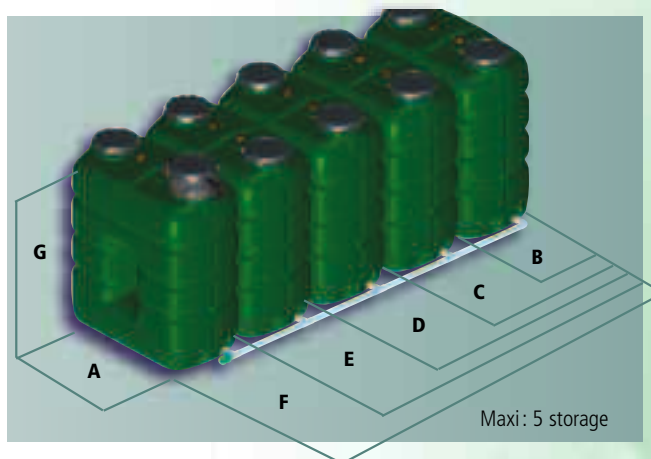
Type	Standard article	Standard weight (kg)	Standard Height	BASIC article	BASIC weight (kg)	BASIC total Height	BASIC IN Height	Length	Depth
530 L	31839	23	109	32693	28	127	109	780	780
750 L	31840	25	149	32694	40	167	149	780	780
1050 L	31841	40	200	32695	46	217	199	780	780

Approximate values

Green XT cixterns

Description	Article	Length A (cm)	Width (cm)	Height of inlet (cm)	Height of siphon (cm)	Height without riser (cm)	Height with riser (cm)	Ø inlet/outlet (cm)	Width C (cm) series of 2 storage	Width D (cm) series of 3 storage	Width E (cm) series of 4 storage	Width F (cm) series of 5 storage
1000	33407	116	73	168	143	167	186	110	154	236	318	400
1500	33408	158	73	168	143	167	186	110	154	236	318	400
2000	32696	160	88	180	155	179	198	110	186	284	382	480
3000	32697	247	88	180	155	179	198	110	186	284	382	480

Approximate values



			Standard PP				Option stainless steel				Standard PP				Option stainless steel										
			Interior storage		Exterior storage		Interior storage		Exterior storage		Interior storage		Exterior storage		Interior storage		Exterior storage								
Volume (litres)	interior storage without lower outlet	Exterior storage without lower outlet	With 1 lower outlet PP	With 1 lower outlet PP	With 1 lower outlet PP	With 1 lower outlet PP	With 1 lower outlet stainless steel	With 1 lower outlet stainless steel	With 1 lower outlet stainless steel	With 1 lower outlet stainless steel	With 2 lower outlets PP	With 2 lower outlets PP	With 2 lower outlets PP	With 2 lower outlets PP	With 2 lower outlets stainless steel	With 2 lower outlets stainless steel	With 2 lower outlets stainless steel	With 2 lower outlets stainless steel	Stopper complete with 2" gas thread (50/60mm)	Manhole	Length (cm)	Width (cm)	Height (cm)	Weight (kg)	
			EPDM	NITRILE	EPDM	NITRILE	EPDM	NITRILE	EPDM	NITRILE	EPDM	NITRILE	EPDM	NITRILE	EPDM	NITRILE	EPDM	NITRILE							
1000	20290	30398	23222	11778	31230	31235	10339	23227	30403	30408	30162	30167	31240	31245	30152	30157	30413	30418	1	1	116	73	167	47	
1500	20291	30399	23223	11762	31231	31236	10340	23228	30404	30409	30163	30168	31241	31246	30153	30158	30414	30419	1	1	158	73	167	65	
2000	32656	32666	32658	32662	32668	32672	32676	32680	32684	32688	32660	32664	32670	32674	32678	32682	32686	32690	2	2	160	88	179	82	
3000	32657	32667	32659	32663	32669	32673	32677	32681	32685	32689	32661	32665	32671	32675	32679	32683	32687	32691	2	2	247	88	179	114	
1000 Basic	-	-	-	33407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	116	73	186	53	
1500 Basic	-	-	-	33408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	158	73	186	71	
2000 Basic	-	-	-	32696	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	160	88	198	88	
3000 Basic	-	-	-	32697	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	247	88	198	120	

Approximate values

Approximate values

Containers

Type	Article	Weight (kg)	Width (cm)	Depth (cm)	Height (cm)	Parts per package
1 000 L	33 076	79	100	120	120	2 Containers

Approximate values

There are supplementary Firewater reserve storage fitted with a drainage hose and pump connections:

RESINC ECVID 25000 : 33903 • RESINC ECVID 30000 : 33906 • RESINC ECVID 35000 : 33909 • RESINC ECVID 40000 : 33940 • RESINC ECVID 50000 : 33943



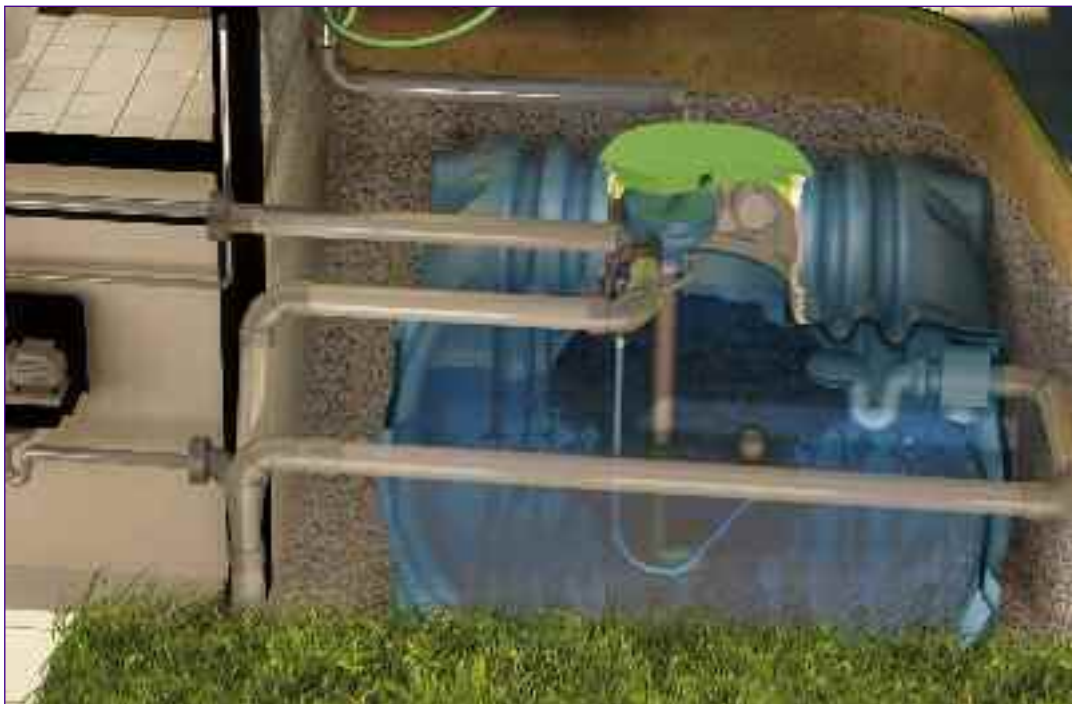
- **Riser REHC 600/250, article 32233** to screw to manholes of Ø 600mm (sold separately)
- **+ reinforced cap, article 30801**, suitable for manholes of Ø 600mm (sold separately)



Imperative to validate the DP storage and their sides with our technical service before excavation or placing load bearing slab

Rainwater

**Above- and underground storage AQUALENTZ®,
Private, public, industrial and commercial uses**



DISTRIBUTOR